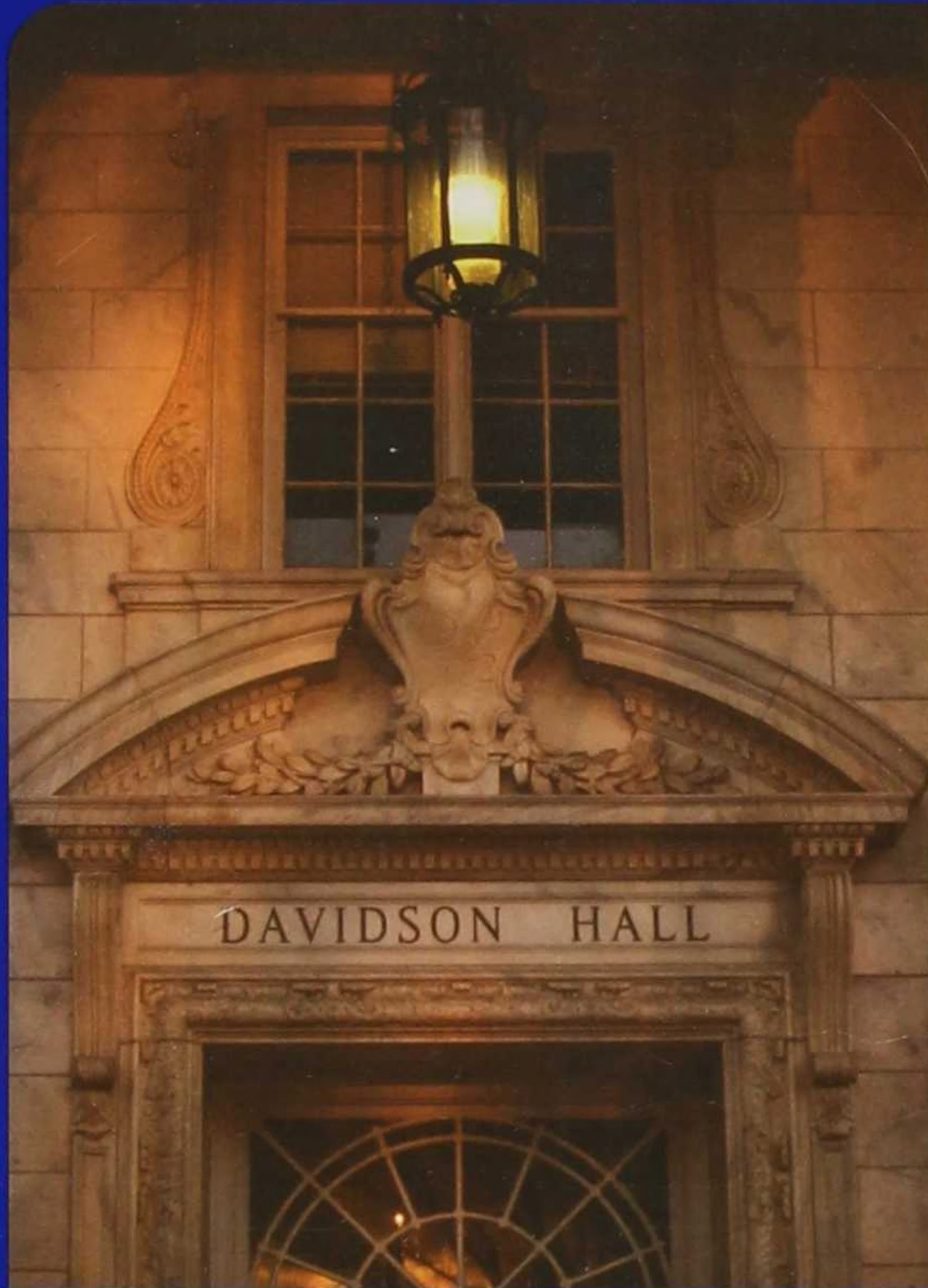


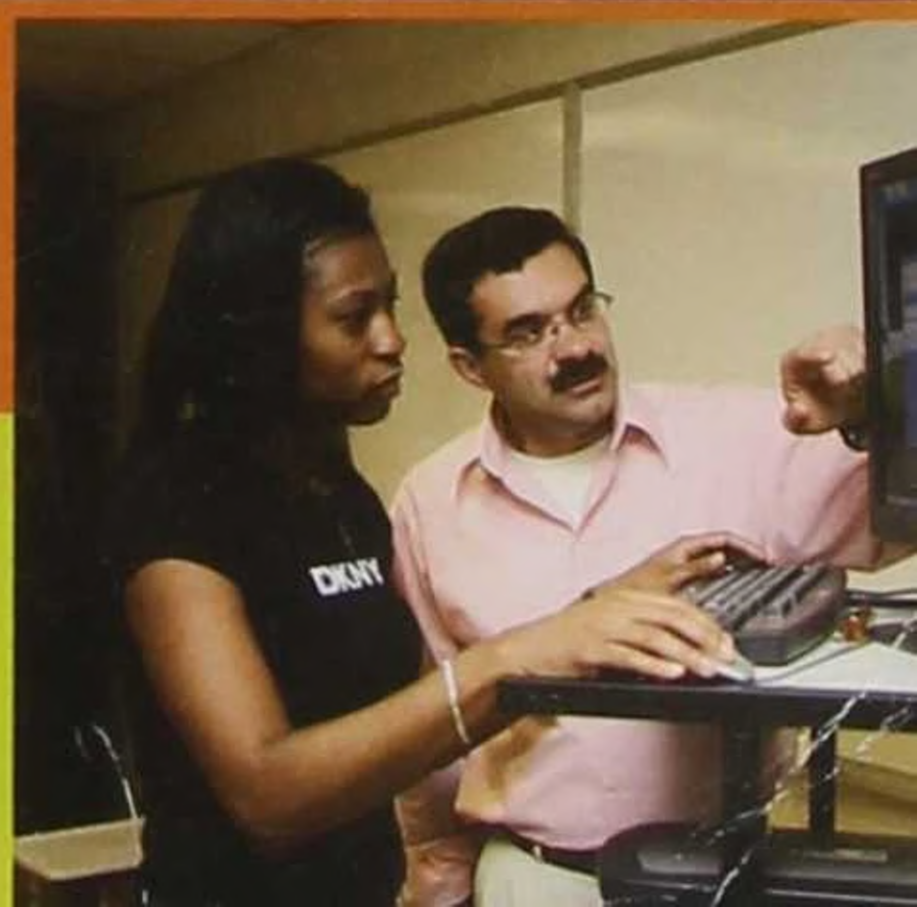
CENTRAL CONNECTICUT
STATE UNIVERSITY

2007 - 2009

UNDERGRADUATE CATALOG



*Start with a dream.
Finish with a future!*



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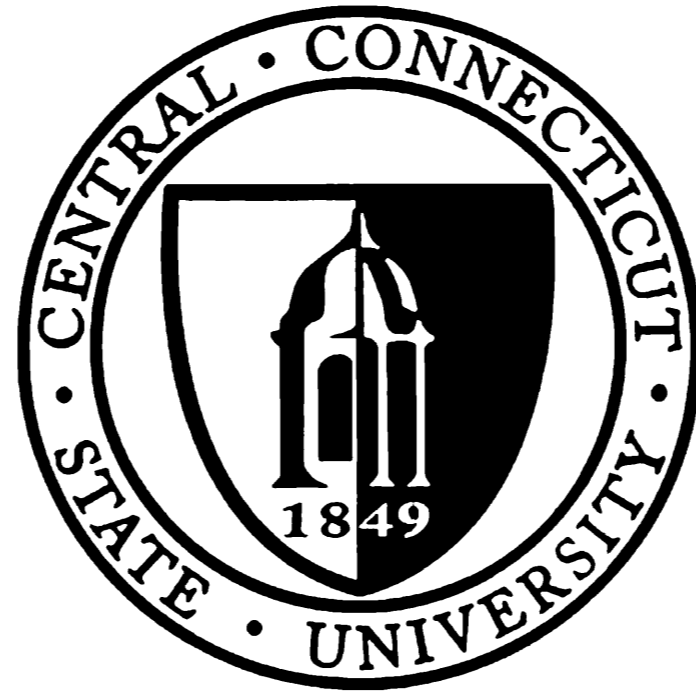
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CENTRAL CONNECTICUT STATE UNIVERSITY

New Britain, Connecticut

Undergraduate Catalog 2007–2009

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		Toll free (outside local calling area)	1-888-733-2278

Send inquiries to:

Office of Recruitment and Admissions
Central Connecticut State University
1615 Stanley Street, New Britain, CT 06050
Fax: 860-832-2295; TTY 860-832-1954
Email: admissions@ccsu.edu; website: <http://www.ccsu.edu>

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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 five schools—Arts and Sciences, Business, Education and Professional Studies, Technology, and Graduate Studies—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 well-being 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 8,000 full-time and 4,200 part-time students. The University has a full-time faculty of 417 members, 77 percent of whom possess doctorates or the equivalent, and 468 part-time faculty offer an array of distinctive educational and professional experiences.

CCSU offers a campus of beauty, hospitality, and state-of-the-art educational technologies, assuring 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 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 sig-

nificant 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.

Accreditation and Memberships

The University is accredited by the New England Association of Schools and Colleges, the Connecticut Department of Higher Education, 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 and the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology. The music program is accredited by the National Association of Schools of Music. The three majors in civil engineering technology, manufacturing engineering technology, and mechanical engineering technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The industrial technology programs are accredited by the National Association of Industrial Technology. The construction management undergraduate program is accredited by the American Council for Construction Education. The Bachelor of Science in Nursing program is accredited by the Commission of Collegiate Nursing Education. The marriage and family therapy program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education of the American Association for Marriage and Family Therapy. 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 specialization.

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 American Council on Education, the Association of American Colleges and Universities, the College Board, the Council

of Advancement and Support of Education, the American Society of Engineering Education, the Council of Graduate Schools, the National Association of Colleges and Employers, the Cooperative Education & Internship Association, and many other professional organizations related to the activities of individual departments at Central Connecticut State University.

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, religious creed, sex, sexual orientation, age, national origin, marital or veteran status or disability, in accordance with state and federal laws. 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 Multicultural Affairs, located in Davidson Hall 102 (860-832-1653).

Governance

CCSU is governed by the Connecticut State University Board of Trustees, which oversees the four Connecticut state universities (Central, Eastern, Southern, and Western) and guides them in effectively serving the public. The board has 18 members, 14 of whom are appointed to six-year terms by the governor and confirmed by the General Assembly. Four members are student trustees who are elected by their fellow students.

The Board of Trustees determines the general policy of the university system; reviews and approves institutional budget requests; sets tuition and fees; and appoints the chancellor of the system and the university presidents. The board meets eight times a year, with meetings rotating among the four universities and the System Office. Board meetings are open to the public.

Resources

Central Connecticut State University is situated approximately two hours 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.

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 skill programs each year.

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. 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.

Advising Center

The Advising Center assists students in developing and implementing academic and career plans. For new undeclared students, the Advising Center provides pre-registration advising on University requirements. The Advising Center, in collaboration with the Dean of the School of Arts and Sciences, coordinates the advising of all students who have not chosen a major. The Center also advises pre-communication majors. For students who are uncertain about their majors 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 and refer them to the proper departments to participate in community service, student activities, internships, and cooperative education. The Advising Center serves both faculty and students as a resource center for developmental advising.

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 60,000 members. The Association offers 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 860-832-1740.

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 Mediation Services

Campus Mediation 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 do not have an opportunity to talk over their grievances in a neutral setting and 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 do not hesitate to contact Ramon Hernandez, Davidson Hall, Room 103, 860-832-1603.

Campus Ministry

Father Paul Rotondi, O.F.M., Catholic Campus Chaplain, and Kathy Christianson, Pastoral Associate; Newman House of CCSU, 860-832-3795, 145 Paul J. Manafort Drive or The Office of Campus Ministry, Marcus White, Room 220, 860-832-1935. All CCSU students, faculty, and staff are invited to visit the Newman Chapel located on the first floor of the Newman House for prayer or use of the first floor or basement library for

quiet study. The Newman Club provides the opportunity for Catholic students to come together as a faith community to pray, study, relax, and grow stronger in the Catholic faith. The Newman Club is located in the Newman House of CCSU. Catholic Mass is held on Sundays at 7 p.m. and Thursdays at 12:05 p.m. During Lent, Mass is held on Mondays, Thursdays, and Fridays at 12:05 p.m. Masses take place in the Philbrick/Camp Meeting Room in the Student Center. Those seeking information and instruction for the reception of the Sacraments, including the Sacraments of Reconciliation and Confirmation, as well as RCIA (Rite of Initiation for Adults to the Catholic Faith), should call Father Rotondi. If a group wishes to use the Newman House, please call 860-832-3795 to schedule.

Rabbi Henry Okolica, Jewish Campus Ministry, 860-832-1935; campus contact is Sharon Braverman 860-832-3205. The Hillel Student Organization sponsors a wide range of social and cultural activities, including parties, meetings, speakers, programs on Eastern European Jewry and Israel, and services. For more information, contact Sharon Braverman.

Imam Qasim Sharief, Islamic Campus Ministry, 860-832-1936; campus contact is Ali Antar 860-832-2932. The Imam leads weekly services on Fridays, when space is available, and can be reached through the Campus Ministry office for individual questions and concerns. Please call for more information.

Reverend Janet Stoddard, Protestant Campus Ministry, Marcus White, Room 220, 860-832-1935. The United Protestant Campus Ministry (U.P.C.M.) serving CCSU is to be the body of Christ in the greater University community. U.P.C.M. offers hospitality to all people regardless of faith tradition, and it nurtures lifelong spiritual growth, understanding, cooperation, and service in the spirit of Christ. U.P.C.M. provides programs of worship, outreach, leadership, fellowship, and service.

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 that can also be accessed through the Career Services/Co-op homepage (www.ccsu.edu/career) and the Voice Job Line (860-832-1647). 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 109 of this catalog. Through this program, students work at six-month, paid positions that 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.

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.

Counseling and Wellness Center

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

Some of the prevention programs sponsored by this department include the Natural Helpers Program, alcohol education

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

The department is located in Marcus White Hall, Room 204 (860-832-1945).

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.

Disability Services

Student Disability Services (SDS) provides students, faculty, and staff with assistance and information on issues of access and fostering opportunities for students to participate in a barrier-free learning environment at the University. The principal duty of SDS is to provide services and supports that promote educational equity for students with disabilities. Assistance includes arranging reasonable accommodations and auxiliary aids that are necessary for stu-

dents with disabilities to pursue their academic studies, both in and out of the classroom. Students with verifiable disabilities, visible or hidden, qualify for services. Students should disclose their disability to SDS as soon as they are notified of acceptance to the University to ensure timely services. All students must provide current documentation of a disability that limits one or more major life activities. Disability categories include, but are not limited to, mobility/orthopedic disabilities; specific learning disabilities; attention deficit disorders; vision and hearing disabilities; acquired head injuries; psychiatric/psychological disabilities; epilepsy; and chronic health-related disabilities. Course accommodations may include arranging for sign language interpreters, Kurzweil technology, readers, note takers, books on tape, extended time for exams, on-campus housing, and classroom relocation if inaccessibility exists. In addition, students can learn advocacy skills, in addition learning to develop strategies to negotiate campus life independently, to understand legal rights and protection, to develop compensatory skills, and, to become knowledgeable about adaptive technology and other on- and off-campus resources.

Students are encouraged to meet with Natalie Stimpson-Byers, coordinator of Student Disability Services, located in The Learning Center, Copernicus Hall, Room 241 (860-832-1900), TTY 860-832-1954. For more information, visit www.ccsu.edu/learnctr.

Early Alert Program

The Early Alert early intervention program exists to intervene with students who 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 before the first exam of the semester, there is a better chance of facilitating academic success.

Faculty, administrators, staff, and students are encouraged to refer students having difficulty in class to ensure a successful completion of course studies. For more information, contact Ramon Hernandez, Assistant Dean; Davidson Hall, Room 103, 860-832-1603.

Elihu Burritt Library

The Elihu Burritt Library holds over 650,000 volumes, subscribes to over 2,500 print periodical titles, as well as more than 16,000 unique e-journals, 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 from home or in the Library.

Information Technology Services

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 BlueNet ID (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.

Judicial Programs

The Director of Judicial Programs administers the conduct system for all students and is available to all students, faculty, and staff who may have questions or concerns regarding the University Judicial System.

The Office of Judicial Programs is responsible for developing ways to respond effectively to incidents or issues that threaten to disrupt the learning environment. In addition,

this office assists with the coordination of conduct referrals to counseling or alcohol and other drug education programs. The goals of the Office of Judicial Programs include resolving discipline cases in a developmentally sound manner consistent with University policy and applicable state and federal laws; encouraging the teaching and development of life-skills, such as healthy decision making, civility, and accountability; and maintaining integrity in regards to the health, safety, and security of all members of the CCSU community.

In the event a student fails to complete sanctions from a prior disciplinary resolution by the required deadline or has failed to meet to resolve reported disciplinary violations, the Office of Judicial Programs may place restrictions on the student's ability to register for courses, reside on campus, etc., until the matter has been fully resolved.

The Office of Judicial Programs is located in Barrows Hall, Room 109 (860-832-1667).

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, placement exams, and ID 102: Master Student (a one-credit study skills course).

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 (860-832-1900). 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 media-related services, including the University television channel and video production. The Center maintains instructional materials and multimedia classroom equipment. Facilities for consulting and developing instructional materials are available during scheduled times. Faculty and students, with the approval of a faculty member, may request media 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.

Pre-Collegiate and Access Services

The office of Pre-Collegiate and Access Services coordinates the Educational Opportunity Program and the Connecticut Collegiate Awareness and Preparation Program (ConnCAP) 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 is a col-

lege preparation program, serving 125 low income, first-generation college-bound middle and high school students from New Britain. The goal of the program 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 New Britain, the program provides 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, Willard Hall, Room 100 (860-832-1902).

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 3,200 spectators; the Jack Suydam Natatorium; and special function rooms, including a modern Nautilus and free weight training facility. Arute Field is the site of home football games, seats over 3,000, and features a state-of-the-art FieldTurf surface and press box. Other sports facilities include Kaiser Annex, a 37,000-sq. ft. recreational/athletic air-supported structure, tennis courts, and fields for soccer, softball, baseball, and recreation.

Intercollegiate athletics are a storied tradition at CCSU. Varsity contests are scheduled in basketball, cross country, lacrosse, golf, soccer, softball, swimming, indoor and outdoor track, and volleyball for women and 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 (860-832-1990) 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 webpage 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 home of the Women's Center, Achieve Credit Union, CCSU Bookstore, and Card Office.

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 **Central Reservations Office (CRO)** at CCSU is the one-stop-shop location to coordinate meetings, conferences, or events. Call or stop by the CRO, located in the Student Center, Room 115, to meet with one of our event coordinators. In addition to coordinating needs in the Student Center and Memorial Hall, CRO can facilitate the use of other specialized venues on campus through our network of facility managers on campus.

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, electronic 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 are available by the semester.

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 website and TW@C. That's why our most important asset is our student staff! For student employment information, go to <http://stdctr.ccsu.edu/> and follow the Employment Info link.

Updated information on services is available at <http://stdctr.ccsu.edu>.

University Ombudsperson

The University Ombudsperson serves as a prompt, impartial, and confidential resource designated by the President of CCSU to assist members of the campus community to resolve a problem or complaint quickly and properly. The Ombudsperson also helps the University to develop, implement, and maintain policies and procedures that equitably address the rights and responsibilities of everyone on campus. The University Ombudsperson can be a last resort, offering help when regular channels have failed, as well as an information resource, offering guidance for those who don't know where to begin. The Ombudsperson is not intended to replace existing University governance or appeal procedures but rather to improve communication regarding University operations and to enable members of the University community to protect their rights and have their concerns addressed in an efficient and effective manner. The office of the University Ombudsperson is located in Maria Sanford, Room 306 (860-832-2216).

Veterans Affairs

The Office of Veterans Affairs (Willard 133) 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 affairs coordinator (860-832-2838).

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 (860-832-1655). 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 860-832-2765.

Centers & Institutes

Biotechnology Institute

The Biotechnology Institute at CCSU is an interdisciplinary organization dedicated to developing graduates with excellent research skills to join the growing workforce in the field of biotechnology. The Institute is housed in the Department of Biomolecular Sciences and serves as a link between the academic community at CCSU and Connecticut's biotechnology industries.

The Institute provides unique research opportunities for undergraduates in the area of biotechnology, fosters the pursuit of research, promotes academic programs and student-centered research, develops strong contacts with Connecticut's biotechnology community in order to create opportunities for CCSU graduates to enter the biotech-

nology workforce through internships, cooperative education, and full-time employment, and conducts outreach programs that foster interest in biotechnology and science among pre-college students.

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 advances a better understanding of the African and African American experience among Africans in the Diaspora; 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; provides mentoring and tutoring programs for students on campus and in the community; 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.

For more information, contact Dr. C. Charles Mate-Kole, director, Center for Africana Studies (email: matekolec@ccsu.edu; phone: 860-832-3105), or Dr. Evelyn Phillips, acting director (email: phillipse@ccsu.edu; phone: 860-832-2617), or call The Center for Africana Studies, located in Marcus White, Room 008, at 860-832-2816.

Center for Caribbean and Latin American Studies

The Center for Caribbean and 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; Universidad Federal de Paraiba, Brazil; and Universidad de Concepcion, Chile. The Center for Caribbean and Latin American Studies sponsors a variety of community events and also supports an active research facility.

Center for East Asian Studies

The Center for East Asian Studies at Central Connecticut State University provides opportunities for students and faculty, as well as the Connecticut business community, to keep abreast of changes in economics and politics and of comparative advantages in China, Japan, and Korea.

The Center seeks to develop and enhance global awareness, cultural diversity, and civic responsibility by fostering support for seminars, lectures, workshops, and exhibitions for faculty, students, and businesses in the U.S. and abroad; reciprocal visits of music, artistic, and sports groups; research and conferences; programs to promote international and intercultural understanding; and contacts and connections between Connecticut and the East Asian community, as well as student and faculty exchanges at CCSU's sister universities in China, Japan, and Korea.

In addition, the Dr. Mong Koo Chung/Hyundai Endowment Fund, the Ki Hoon Kim Scholarship Fund, Koh Scholarship Fund, Yoko Niibo Scholarship Fund, and C. J. Huang Endowment, among others, award scholarships to those who are eligible and meet all requirements. Funds are also available to CCSU faculty who want to do research work in Japan and Korea. These are administered by the CCSU Foundation, Inc.

Center for Public Policy and Social Research

The Center for Public Policy and Social Research (CPPSR), designated a Connecticut Higher Education Center of Excellence, is dedicated to enriching the quality of public policy, public service, University outreach, and applied research in Connecticut. CPPSR provides a wide range of informational resources, training,

research, and consulting services to communities, municipal and state government, and nonprofit organizations. CPPSR develops, facilitates, and supports faculty and student projects, which provide a unique opportunity to advance scholarship, applied research, and real-life experiences.

The Center serves the State of Connecticut by providing a neutral forum for the framing and debate of a myriad of contemporary public issues. The Center also conducts research and helps facilitate the development and implementation of innovative public policy initiatives.

The Center houses the Governor William A. O'Neill Endowed Chair in Public Policy and Practical Politics. The Chair's programs include active archival and oral history projects, focusing on Connecticut's modern public policy history—including the Governor O'Neill era and Connecticut's landmark Lemon Law initiative—and a partnership with the History Department, Elihu Burritt Library, Media Services, and the United States Library of Congress in the Veterans History Project. A visiting Distinguished Professorship of Public Policy has been established to link the O'Neill Chair to students and faculty. The position is filled by a public figure recognized for his or her outstanding contribution to the understanding and shaping of public affairs in Connecticut.

The Center's applied social research function is maintained as an affordable resource for government, communities, and non-profit organizations that need assistance with survey research, program evaluation, project development, and training of government officials. Among the resources utilized are expert faculty and capable students from the Schools of Arts and Sciences, Business, Education and Professional Studies, and Technology.

The Center for Public Policy and Social Research (and the Governor William A. O'Neill Endowed Chair) is located in the Robert C. Vance Academic Center, with a satellite office for applied social research in DiLoreto Hall.

Center for Teaching Excellence and Leadership Development

The Center for Teaching Excellence and Leadership Development, located in Barnard Hall, coordinates professional development activities and resources related to teaching, the assessment of student learning outcomes, and faculty leadership. The

goals of the Center are to promote a learning community focused on studying and improving teaching to enhance students' learning and to enhance the growth of academic leaders in the CCSU community.

The Center sponsors various programs aimed at building and sustaining a learning community on the CCSU campus. Among the many programs offered by the Center are Teaching Excellence Forums; opportunities for continued instructional development for faculty in the teaching and learning process; and leadership development for current departmental chairs and others. Other activities included in the Center's mission are Scholarship of Teaching and Learning opportunities and assessment of learning and teaching efforts.

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 cam-

pus 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) promotes the mutual socio-economic and environmental benefits of regional alternatives to problem solving and facilitates intergovernmental cooperation and comprehensive planning to address regional solutions to critical public policy issues in Connecticut. The IMRP serves state and local government officials and entities, as well as community and non-profit organizations. The IMRP provides educational forums and materials, facilitation services, and research of innovative regional alternatives.

Located in the Robert Vance Academic Center, the IMRP's recent activities have included educational forums and presentations that have addressed "smart growth" and transportation-oriented development, taxation, workforce development, and the links between housing and education.

Institute for the Study of Crime and Justice

The Institute for the Study of Crime and Justice (ISCJ) serves the interests of the criminal justice community in Connecticut by utilizing the University's faculty, staff, and student resources to perform applied research, train criminal justice personnel, and develop, implement, and evaluate criminal justice initiatives for local, state, and federal governmental clients. The ISCJ also serves as a centralized clearing-house for the exchange and dissemination of information concerning the criminal justice field.

Located in the Robert Vance Academic Center, the ISCJ provides opportunities for students to collaborate with faculty and practitioners in a variety of professional settings.

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. CCSU ITBD is the host of the U.S. Small Business Administration Small Business Development Center Program, with sub-center offices on the campuses of Eastern, Southern, and Western Connecticut State Universities. A fourth office is located at the Connecticut Department of Economic and Community Development Small Business Office in Hartford. The Institute also houses the New Britain Industrial Museum.

Institute of Tourism and Hospitality

The availability of accurate and timely empirical information—in such areas as problem solving, forecasting for proactive initiatives, and an assessment of the overall health of the organization—is critical to the sustainability of contemporary tourism and hospitality organizations. Accordingly, the Institute of Tourism and Hospitality was created in 2001 to offer research and consulting services to tourism-hospitality organizations (profit and non-profit) operating in the state of Connecticut. Housed in the office of Academic Affairs, the Institute offers expertise in the following areas: market research, data analysis, quantitative decision-making, service quality, entrepreneurship, product development, lean accounting, management processes, informatics, law, employee training, and curricula design. In the process, the Institute involves the student body in the outreach program of the University and provides an introduction to and experience in the tourism-hospitality industry. The Institute's website is www.ccsu.edu/ITH.

U.S.-China Business Center

The mission of the U.S.-China Business Center (US-CBC) is to coordinate the outreach and developmental activities for Central Connecticut State University in the People's

Republic of China. A further aspect of the mission is to forge links with Connecticut businesses and industries to integrate the University's initiatives in China and to assist in the formation of joint ventures between Chinese businesses and Connecticut businesses.

Located in Marcus White Hall, US-CBC promotes Central Connecticut State University as a leading, innovative educational institution facilitating U.S.-China collaborations. Through this long and successful relationship that CCSU has had with the People's Republic of China, the University has had the opportunity to work with many provinces and cities across China, conducting training programs for public officials both in China and at CCSU. US-CBC is also the sponsor of a faculty/student study abroad program to the People's Republic of China during the Summer Session.

Richard Bishop, *Acting Director*
 J.A. Tony Carberry, *Associate Director*
 Douglas Benoit, *Assistant Director*
 Leah Scott Byrd, *Assistant Director*
 Eric Dobler, *Assistant Director*
 Chris Gutierrez, *Assistant Director*
 Jonathan Judd, *Assistant Director*
 Kristin Lake-Piano, *Assistant Director*
Phone: 860-832-CCSU (2278)
E-mail: admissions@ccsu.edu
Website: 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 \$50.00 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.

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 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 860-832-2289 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

To be considered for admission, first-year applicants must submit the following credentials:

- Completed application for undergraduate admission (apply online at www.ccsu.edu/admission),
- Non-refundable \$50.00 application fee,
- Official high school transcript,
- High school class rank (if applicable),
- SAT I or ACT scores (scores may be sent either by the high school or The College Board),
- One letter of recommendation, and
- Personal statement.

Hand carried or student copies of credentials are not accepted as official documents under any circumstances.

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. For curriculum requirements, please refer to the Academic Programs section in this catalog.
- **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** — completion of the third level of 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. Such consideration may be determined 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 hold a GED (General Equivalency Diploma) should submit their secondary school transcript up to the time of withdrawal and a copy of their GED and scores.

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, www.collegeboard.com**. Applicants should have the test results sent from CEEB to the Office of Admissions. **CCSU's CEEB code is 3898.** Veterans and applicants who graduated from high school more than five years before applying are not required to submit SAT I scores as part of their application.

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.

Students with Disabilities

Academically qualified students with disabilities 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 disabilities 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 Dis-

abilities. 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: ssd@info.collegeboard.org.

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

For additional information, contact Natalie Stimpson-Byers, coordinator of Student Disability Services (Copernicus Hall, Room 241) at 860-832-1900.

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 (860-832-2256).

Transfer Student Admissions

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

A student wishing to transfer to Central Connecticut State University from another institution of higher learning must complete an application for admission online at www.ccsu.edu/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.

Connecticut Community College Transfers with Associate Degrees

All graduates from transfer programs of the Community 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 are advised to submit an application at least three months prior to the semester in which they plan to enroll.

International Student Admissions

International student applicants must complete an application for admission online at www.ccsu.edu/admission, and submit all required supporting credentials by the following deadlines. Fall semester candidates should submit applications by April 1; spring semester candidates 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 on the written test (173 on computer-based test; 61 on the Internet-based test). Information on the TOEFL may be obtained from Educational Testing Services, P.O. Box 6151, Princeton, NJ 08541-6151, USA, telephone 609-771-7100; fax: 610-290-8972; email: toefl@ets.org. 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. International students with transfer credit, 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 124 (860-832-2040), 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 that 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 Credential Evaluation Services (NACES; www.NACES.org). 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 NACES-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:

World Education Services
Bowling Green Station
P.O. Box 5087
New York, NY 10274-5087
Phone: 212-966-6311
www.wes.org

Center for Educational Documentation
P.O. Box 231126
Boston, MA 02123-1126
Phone: 617-338-7171
www.cedevaluations.com

Educational Credential Evaluators, Inc.
P.O. Box 92970
Milwaukee, WI 53202-0970
Phone: 414-289-3400
www.ece.org

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,

the Enrollment Center, or online at www.ccsu.edu/admission/adminapp.htm. 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.

For requirements concerning a previously declared major or minor that is no longer offered at the University, a similar choice may be available except for requirements and curriculum changes mandated by outside accrediting and certifying agencies. Additional course work may also be 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 Affairs to apply for V.A. educational benefits. The coordinator is located in Willard Hall, Room 133 (860-832-2838). Eligibility, in some instances, depends on whether contributions were made to an educational plan while on active duty.

A copy of the DD Form 214 (separation papers — copy number 4) should be submitted to the Office of Veterans Affairs if applying for the tuition waiver. National Guard members apply every semester for the tuition waiver through their Guard unit.

Medical Exam

All full-time students and international students are required to submit a University Health Form, which includes 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 Public Health. Full-time, part-time, exchange, and "IELP" international students are required to submit a completed University Health Form.

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 (860-832-1925) or online at www.ccsu.edu/healthservice.

ENROLLMENT CENTER — CONTINUING EDUCATION AND SUMMER AND WINTER SESSION

Peggy Schuberth, *Director of Continuing Education and the Enrollment Center*
Rita Brann, *Associate Director*
Amanda Tellier, *Assistant to the 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 (860-832-2278). 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 (860-832-1615) 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 (860-832-2350) or the Office of the School of Graduate Studies (860-832-2363).

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:

Fees	CT Resident	Non-Resident
Tuition	\$1,673.00	\$5,415.50
General	1,088.00	1,088.00
State University	424.50	1,042.00
Student Activity Information	70.00	70.00
Technology	111.50	111.50
Total	\$3,367.00	\$7,727.00

A Sickness Insurance Fee of \$359 is billed to all full-time students each term. Those who already have adequate insurance have the option of waiving the University-billed policy through CentralPipeline at <http://pipeline.ccsu.edu>.

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

Payment of Tuition and Fees

All full-time students when first accepted for admission or re-admitted to Central Connecticut State University are assessed a non-refundable \$200 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 \$250 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 for fall and December 15 for spring. Room costs are \$2,844.00 for James Hall and \$2,374.00 for all others.

Students assigned to residence halls following those due dates will be contacted. Failure to pay room charges by the due date 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 \$1,699–\$1,949 per semester. Students can-

celling 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 subject to a federal refund calculation which determines the amount of Title IV aid that must be returned. A complete text of the Title IV refund calculation is available in the Financial Aid Office or at www.ccsu.edu/finaid.

Refund Policy

ALL FULL-TIME STUDENTS

Tuition and Fees:

- Upon withdrawal from the University, up to and including the first day of classes, 100% of tuition and fees will be credited.
- 60% will be credited during the first two weeks of classes.
- 40% will be credited during the third and fourth weeks of classes.
- No credit after the fourth week.
- Refunds will be issued assuming that all applicable charges were paid in full, and, if not, student may actually owe to CCSU.

Full-time students who change their status after the start of classes to part-time and then withdraw during the first week of classes will be assessed a 40% withdrawal penalty.

\$200 Confirmation Deposit:

- Non-refundable

\$250 Housing Deposit:

- Non-refundable

Housing Fee:

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 will be refunded during the third and fourth weeks of classes.
- No refund after the fourth week.

Students who remain enrolled but withdraw from University housing:

- Upon withdrawal from a residence hall, up to and including the first day of University-wide classes as defined by the published University calendar, 100% of the balance paid, less the housing deposit and the housing cancellation fee, if applicable, will be refunded.
- No refunds will be made after the beginning of classes.

Housing Cancellation Fee:

- Upon withdrawal from a residence hall 15 to 28 days prior to and including the first day of classes, a 10% housing cancellation fee, based upon the housing fee after deducting the housing deposit, will be assessed.
- Upon withdrawal from a residence hall 1 to 14 days prior to and including the first day of classes, a 20% housing cancellation fee, based upon the housing fee after deducting the housing deposit, will be assessed.

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) (includes online courses)

Students enrolling as full-time students may not withdraw from the University as part-time students during the first week of University-wide classes without incurring the 40% withdrawal penalty.

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, resi-

dence hall deposit, late fees, extra credit fees, payment plan enrollment 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 Residence Life 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. prevention of re-admission until unpaid financial obligation and re-registration fee are paid in full
- c. cancellation of on-campus housing
- d. deny future course registration
- e. referral of the unpaid financial obligation and related collection costs to the University's contracted collection agency

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 up to four installments per semester. Fall semester installment payments are made monthly, beginning July 15 and ending on October 15. Spring semester installment payments begin December 15 and end on March 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 at 860-832-2010, or visit www.bursar.ccsu.edu. Office hours are Monday–Thursday, 8 a.m. to 5 p.m., and Friday, 8 a.m.–4:30 p.m.

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 Memorial Hall dining, 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 online through CentralPipeline

by echeck or credit card, or at the Card Office and Bursar's Office by cash, check, and credit card. Credit card transactions can also be made over the phone by calling the Card Office (860-832-2140), and through CentralPipeline. Instructions on making a web deposit can be found at www.cardoffice.ccsu.edu. Cash can also be deposited instantly at six Card Value Centers, located at the Library, Microcomputer Lab, Student Center (2), Sheridan Hall, and the Police Station, which is open 24 hours.

The University has an agreement with Achieve 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 certain financial aid may choose to have excess aid electronically deposited to a Achieve Credit Union bank 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 Achieve Credit Union accounts. The Card Office and Achieve Credit Union are located in the campus Barnes and Noble Bookstore, at the Student Center. During the semester, Card Office hours are Monday through Wednesday from 9 a.m.–5 p.m., Thursday from 9 a.m.–7 p.m., and Friday from 9 a.m.–4 p.m., with extended hours during the first two weeks of school. After Card Office hours, lost cards should be reported to the Police Department (860-832-2375); 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 certain 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 104, Memorial Hall, phone 860-832-2010.

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 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.

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 Affairs 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 (beginning 8/2/90).

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.

For full-time students, the tuition portion of the tuition and fees bill is waived; other applicable fees must be paid each semester. For part-time students, one-half of the per-credit course fees is waived; the registration fee and other applicable fees must be paid each semester. Veterans who are residents of the state of Connecticut when accepted for admission to CCSU may qualify for the above waivers. National Guard and tuition waiver students should contact the Office of Veterans Affairs, Barrows Hall, Room 103 (860-832-2838).

Richard Bishop, *Director*
 Memorial Hall, Room 103
 Phone: 860-832-2200
 Fax: 860-832-1105
 Website: www.ccsu.edu/finaid

What Is Financial Aid?

Financial aid is to assist students in paying for their college education. Financial aid funds come from federal and state governments, CCSU, and other agencies and organizations.

Financial aid consists of these types of funding:

- Grants**—funds made available by the federal and state governments, and the institutions.
- Scholarships**—funds awarded to students, based on merit, either by the institution or outside private donors.
- Loans**—funds made available to borrowers, either student or parent, by the federal government and private lenders.
- Work Study**—funds awarded to students for on-campus employment.

Who Is Eligible to Receive Aid?

A student must meet the following basic requirements to be eligible for financial aid:

1. Have a high school diploma or its recognized equivalent
2. Be a U.S. citizen, permanent resident, or other eligible non-citizen
3. Be formally accepted (matriculated) by the institution's admissions office
4. Be enrolled each semester for a minimum of six (6) credit hours
5. Be making satisfactory academic progress at the institution
6. Not be in default on a federal loan or owe a refund on a federal grant for attendance at any institution.

How Do I Apply for Aid?

All students must complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov to determine a student's and family's ability to pay for the educational costs.

In order to complete the FAFSA both the student and parent need to go online at www.pin.ed.gov and each request a Personal Identification Number (PIN). A PIN enables the student and parent to access and electronically sign the FAFSA.

CCSU's Federal ID code—001378—must be included on the FAFSA in order for it to be sent to the CCSU Financial Aid Office.

If a student is married, a graduate student, a veteran, supporting a child or other dependent, or a ward of the court, he or she is not required to enter the parents' data on the FAFSA. However, if the student is married, the spouse's data must be included.

What about Deadlines?

A student may file or renew a FAFSA from January 1 to October 1 for the fall semester; February 15 for the spring semester; and June 1 for the summer term and academic year.

However, the CCSU Financial Aid Office posts two priority processing deadlines:

March 1—for all new, incoming first-year and transfer students.

April 15—for all continuing CCSU students.

These deadlines enable the Financial Aid Office to make full consideration of each student's eligible need and allows the student to make basic decisions with regard to financing his or her college education.

If the student does not meet the posted priority processing deadline, certain financial aid funds, including institutional and SEOG grants, work study, and Perkins loans, will not be available to award to the student.

Is the FAFSA Difficult to Complete?

The FAFSA requests demographic and financial information about the student and parent (and spouse when applicable). From the FAFSA website homepage a student may download and fill out a FAFSA worksheet, which is a template of the on-line application.

Answer all questions, including all optional information; failure to do so may cause delays in processing. Students do not have to be formally admitted to CCSU to file the FAFSA. If a student has not filed a federal income tax return, enter estimates and then make corrections when it is filed.

If students or their families have unusual circumstances, such as loss of employment, they should complete the FAFSA and contact the Financial Aid Office for further instruction.

A student will receive notification by email or by letter that his or her FAFSA has been processed. If notification has not been received, call 800-433-3243 to learn why. Upon notification, a student should access his or her FAFSA and download a copy of the Student Aid Report (SAR), which includes a summary of data entered and lists areas which need further attention or correction.

When Is the Aid Awarded?

The student will be sent a letter listing the aid awarded and an instruction sheet telling how to electronically accept and sign the aid award in the student's Pipeline account. If the student has not completed all of the requirements outlined by letter from the Financial Aid Office, the aid award will not be processed. Award letters will be sent to students who have met the respective priority processing deadlines in about three to four weeks. If the aid is not electronically accepted and signed within 15 days following the date of the award letter, all aid may be cancelled.

The financial award is normally awarded for a full academic year—fall and spring semesters on a full-time basis. But, only one-half of the aid may be used per semester.

A student's eligible need is determined by subtracting the Estimated Family Contribution (EFC) provided by the FAFSA from the Cost of Attendance (COA) budget created by the Financial Aid Office.

Awarded and accepted aid is subject to change as circumstances may dictate, including changes in enrollment and residency status, receipt of other funds and in-kind support, and funding provided from other resources.

What Resources Are Available?

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 as determined by the FAFSA. Only students who have not earned a bachelor's degree are eligible.

ACG and Smart Grants—the ACG grant is available only to incoming high school students. The Smart Grant is available only to students who have completed their sophomore year. Eligibility requirements are set by the U.S. Department of Education.

Connecticut State University Grants and Connecticut Aid for Public College Student Grant Program—eligibility is based on financial need, and the amount of the grant is determined by the Financial Aid Office.

Federal Supplemental Educational Opportunity Grant—Eligibility is based on exceptional need and Pell Grant recipients have priority. Only students who have not earned a bachelor's degree are eligible.

Scholarships—for information, availability, and application deadlines, refer to the section on scholarships on page 29.

LOANS

Loans are available to students and parents in two categories—federal direct and alternative private signature loans. The Financial Aid Office encourages students and parents to take full advantage of the federal direct loans because they are less expensive than alternative loans.

Federal Direct Stafford Loan—this loan may come in subsidized and unsubsidized components, based on student eligibility as determined by the FAFSA. It is a fixed interest rate loan with repayment to begin six months after the student leaves school. For the subsidized component, the government pays the accruing interest while the student is in school; for the unsubsidized component the student will be billed quarterly for the accruing interest while in school.

Federal Perkins Loan—this loan is available to undergraduate students who demonstrate eligible need as determined by the FAFSA. The fixed interest rate is applied and repayment begins nine months after the student leaves school.

Federal Direct Parent PLUS Loan—this fixed-rate interest loan is available to a dependent student's parent. The amount of the loan may not exceed the student's cost-of-attendance budget set by the Financial Aid Office less all other awarded aid and resources. Repayment begins 60 days following the disbursement of the loan; normally the third week of the semester.

Additional Unsubsidized Federal Direct Stafford Loan—this loan is available only for a dependent student whose parent has applied for a Parent PLUS loan and has been denied. The amount available increases each year according to the student's enrollment status. This fixed interest rate loan is not need based and has the same repayment and interest billing requirements as the Federal Direct Stafford Unsubsidized Loan.

STUDENT EMPLOYMENT

Federal Work Study Program—this work program allows the student to find employment on campus and receive a paycheck every two weeks based on hours worked and the rate of pay. Eligibility is based on eligible need as determined by the FAFSA.

Student Campus Employment—many University departments will employ students who have not been awarded FWSP funds. Financial need is not a necessary requirement.

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 Grants (CAPS)
- Federal Stafford Loan Program (subsidized and unsubsidized) (FELP)
- Federal Direct Stafford Loan Program (subsidized and unsubsidized) (FDSL, FDUL)

MAINTAINING SATISFACTORY ACADEMIC PROGRESS

To be eligible for *any* financial aid, you must complete *the appropriate number of credit hours* 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

19–36 credits	minimum GPA 1.60
37–53 credits	minimum GPA 1.80
53–70 credits	minimum GPA 1.90
70 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.

EOP 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., and are available to CCSU students *only*. Inquiries should be made to scholarships@ccsu.edu. In order to apply for these scholarships, an applicant must be a matriculated student or accepted for admission as a matriculated student at CCSU. A CCSU ID# is required to complete the application. The application period is November 1 through February 1, and the online application is available during this time only.

Carmine J. Abate Scholarship—awarded to an incoming first-year student who is a graduate of New Britain High School and who participated in varsity football. Preference given to applicants who enroll in the Construction Management or Civil Engineering Technology majors

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

J. D. Arute Endowed Scholarship—support for an active member of the varsity football program

Jack Arute, Sr., Scholarship—awarded annually to an outstanding graduate from a New Britain-area high school who is enrolled in civil engineering or construction technology

Justus Beach Scholarship—awarded to assist students from economically and educationally disadvantaged backgrounds who are enrolled in one of CCSU's teacher preparation programs

Milton Bellin Scholarship—awarded to an art major

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 or cross-country teams

Stanislaus A. Blejwas Memorial

Scholarship—provides support for a full-time student who demonstrates an interest in Polish issues

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—support for students from Hartford or West Hartford with evidence of academic achievement, community involvement, demonstrated leadership, and commitment to diversity

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

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

Rodney Card Scholarship—provides support for a full-time student majoring in art or art education

CBA Construction Law Scholarship—awarded to incoming and continuing students in Construction Management or Civil Engineering Technology

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 student from Connecticut who is a member of the NAACP

William Chatfield Scholarship—awarded annually to a junior or senior majoring in Technology Education with a minimum grade point average of 2.50

Adolfo Chavarro/Latin American Association Scholarship—support for students in the Connecticut College Access Success (ConnCAS) program

Chemistry Scholarship—support for a student majoring in chemistry

Esther M. Clarke/Mildred L. 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 1954 Scholarship—support for an undergraduate student preparing for a career in teaching education with an overall GPA of 3.00 at the end of their sophomore year of study

Grace Hirst Creed/Dr. Harold J. Bingham Scholarship—support for students with at least 30 credits in residence at the University who demonstrate financial need and who have made efforts to finance the cost of higher education by working

CSEA—Chapter 31—awarded to children of CCSU faculty

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

Michael D'Amico/Class of 1998 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

David DeNuccio Graduate Scholarship—provides support for graduate students in the Department of Biology

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

Duffy Family Fund—support for a student in the School of Technology who shows evidence of outstanding academic and career potential

Educational Support Services Scholarship Fund—recipients must be enrolled in any University program aimed at providing educational access and opportunity to economically disadvantaged or educationally underprivileged students

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

Foundation Scholars—support for selected incoming first-year students who rank in the top 25% of their graduating class and have achieved a minimum of 1100 on the SAT.

Friends of New Britain High School Football Scholarship—awarded to first-year students who have participated in varsity football at New Britain High School

Dr. Helen Garabedian Scholarship—support for a student of Armenian descent 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 men's or women's 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 3.50 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

The Cynthia Guertin Memorial Scholarship

Fund—provides support for a full- or part-time student who has used her or her gifts and talents in the service of others

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

Dr. Patricia Hall Scholarship—awarded to a finance major

Harper & Whitfield Scholarship—awarded to a full-time accounting major

Paul Hochstim German Scholar Exchange—support for scholarly exchanges between German universities and Central Connecticut State University

F. & L. Holland Scholarship—awarded to music or music education majors, or musicians identified by the faculty as students who will significantly contribute to the ensembles in the Music Department

C. J. Huang Endowment—to support exchange of faculty and students 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 faculty and student exchange opportunities with Northwest Normal University Teachers College, Cheongu University, Federal University Paraiba, and Sam Sharpe Teachers College

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

Arthur & Catherine Kevorkian

Scholarship—awarded to a matriculated, full-time student in the Professional Program preparing for a career in teaching at the elementary or secondary level

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

Charles "Chick" Klett Golf Scholarship—support for a member of the men's or women's varsity golf teams

C.R. Klewin/Michael J. D'Amato Scholarship—awarded to a student majoring in construction management or civil engineering technology

Kwang Lim & Hesung Chun Koh Scholarship Fund—support for students accepted for study in the Republic of Korea and for Korean students accepted for study at CCSU

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

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

Florence Widger Lohse Scholarship Fund—awarded to an education major

James A. & Mary Hayes Lord Scholarship—support for 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 or baseball teams

Frank Marietta Scholarship—support for an active member of a varsity athletic team

Raymond D. & Ellen N. Martinsen Scholarship—awarded to a 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 finance major 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

Hughson Mooney Scholarship—awarded to a full-time student majoring in history

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 3.00 or higher

Ted Owen Track & Field Scholarship—awarded to an active member of the men's or women's cross country or track teams

W. Terry Owens/Ann Murtha 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

Charles Petitjean Scholarship—awarded to a senior-level student enrolled in any School of Education and Professional Studies teacher preparation program

Pettinico Family Scholarship—awarded to 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

Paul K. Rogers Scholarship—provides support for incoming first-year students pursuing majors in business or industrial technology

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 full-time 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—awarded 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

Estelle Jones Triarhos Scholarship—awarded to a dance major

Unity Lodge/New Britain Freemasons—support for a full-time matriculated undergraduate student who has earned 30 credits and a minimum GPA of 2.80 and who is dedicated to the development of high moral character and good citizenship

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

Stella Willins Scholarship—awarded to a matriculated student in the Business Education graduate certification program

Michael J. Witty Scholarship Fund—awarded 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—support 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—support for educationally disadvantaged students, particularly students admitted through the Educational Opportunity Program or similar collegiate access programs

John Zubretsky Scholarship—awarded to students who have been accepted to the Professional Program and who are preparing for careers in science education

STUDENT INFORMATION

Bookstore

The University Bookstore, operated by Barnes and Noble, Inc., is located in the Student Center. In addition to carrying course textbooks, the University Bookstore maintains an inventory of office and school supplies; CCSU gift items; a wide variety of clothing, health and beauty aids, reference materials, greeting cards, and gift cards; and a large selection of drinks, snacks, and ice cream. The University Bookstore has now made it easier than ever for students to purchase textbooks, and other merchandise sold in the store, over the Internet at www.ccsu.edu/bookstore.com.

Cancellation of Classes or Final Examinations Due to Inclement Weather

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 at a minimum of twice daily: 6 a.m. for the day schedule and 2 p.m. for the evening schedule; more frequent updates will occur as weather conditions warrant.

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 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 May), 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 860-827-7018.

Identification Cards

All students are required to obtain an identification card, called the Blue Chip Card, after registering for at least one class. 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 website, 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 the Card Office (860-832-2140), as well as through CentralPipeline. Instructions on making a web deposit can be found at www.cardoffice.ccsu.edu. Cash can also be deposited instantly at six Card Value Centers, located at the Library, Microcomputer Lab, Student Center (2), Sheridan 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 Wednesday from 9 a.m.–5 p.m., Thursday from 9 a.m.–7 p.m., and Friday from 9 a.m.–4 p.m., with extended hours during the first two weeks of school. After Card Office hours, lost cards should be reported to the Police Department (860-832-2375); 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 webpage (<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 (860-832-1660), 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 (860-832-3740).

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 on the website <http://clubs.ccsu.edu>.

For more information on student organizations, contact the Department of Student Activities/Leadership Development. The following is a list of organizations.

Academic

Accounting Society, American Marketing Association, Art Club, Athletic Trainers Association, Biology Club, Caducean Club, Chemistry Club, Communications Club, Computer Club, Construction Management Club, Criminal Justice Club, Economics Club, Education Club, Exercise Science Club, Finance Association, Geography & Tourism Club, History Club, Management Information Systems Club, Music Appreciation Club, Music Educators National Conference, Physical Education & Health Fit-

ness Club, Physics & Earth Sciences Club, Psychology Club, Social Work Club, Students' Advisory Board, World Business Affairs Club

Cultural and International

African Studies Association, Africana Students Organization, Asian America Students Association, Black Student Union, Chinese Student Association, CIAO—Central's Italian American Organization, French Club, International Relations Club, Japanese American Cultural Club, Japanese Pop Culture Club, Latin American Student Organization (LASO), Mosaic Center Committee, Muslim Student Association, NAACP-CCSU Chapter, Polish Club, PRIDE, South Asian Students Association, Spanish Club, United Caribbean Club

Fraternities and Sororities

Lambda Alpha Upsilon Fraternity, Lambda Theta Alpha Latin Sorority, Lambda Theta Phi Fraternity, Phi Beta Sigma Fraternity, Phi Delta Theta Fraternity, Phi Sigma Sigma Sorority, Interest Group for Sigma Iota Alpha Sorority

Governmental

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

Honors and Professional

*Alpha Lambda Delta (First Year Students), *Alpha Mu Gamma (Foreign Language), American Choral Directors Association, American Society of Civil Engineers, American Society of Mechanical Engineers, American Society of Safety Engineers, *Beta Beta Beta (Biology), *Delta Mu Delta (Business), *Delta Pi Epsilon (Business Education), *Epsilon Pi Tau (Ind. Arts & Voc-Ind. Ed.), *Eta Kappa Nu (Engineering), *Gamma Theta Upsilon (Geography), Golden Key International Honor Society, *Kappa Delta Pi (Education), National Association of Industrial Technology, NSBE (National Society of Black Engineers), *Omicron Delta Epsilon (International Economics), *Phi Alpha Theta (History), *Pi Sigma Alpha (Political Science), *Psi Chi (Psychology), Society of Manufacturing Engineers, Technology Education Collegiate Association (TECA), *Upsilon Pi Epsilon (Computer Science)

*These organizations are adjunct to University departments and are not advised by SA/LD.

Media and Publications

DIAL Yearbook, *Helix* (literary magazine), *The Recorder* (newspaper), WFCS FM-107.7 (radio)

Performing

A Cappella Society, Central Capoeira Club, Club Hip Hop, COLADA (Central Organization of Latin American Dance Awareness), DanCentral, Dance Club, Ebony Choral Ensemble, Pep Squad, Theatre Unlimited

Religious

Christian Students at Central (CSAC), Hillel Jewish Student Organization, Newman Club, Revival

Special Interest

Amistad Club, Best Buddies, College Democrats, College Republicans, Central Car Club, Engineers without Borders, Habitat for Humanity, NUCLEUS (Video Game Development), Progressive Student Alliance, Society of Paranormal Investigations, Students for Animals, URBAN—United Reading of Black Authors and Novels, Veterans Appreciation Organization (VAO), WIN—Woman Involved Now, Youth for Socialist Action

Sports and Recreation

Aikido Club, Central Disc Club, Central Role Playing Group, Chess Club, Equestrian Club, Fencing Club, Hang Gliding Club, Ice Hockey Club, Karate Club, Lacrosse Club, Lady Hooligans Woman's Rugby, Men's Rugby Club, Outing Club, Paintball Club, Ski and Snowboard Club, Triathlon Club

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 Public Health 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 online at www.ccsu.edu/healthservices (click on "forms") in the University Health Service, Marcus White Annex (860-832-1925).

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–Thursday from 8:30 a.m.–4 p.m. and Friday from 9:30 a.m.–4 p.m. 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. Brochures are available at 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 at the Information Desk in the Student Center. Students with disabilities may register as voters at Student Disability Services in Copernicus, Room 241. 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*
 Matthew R. Bielawa, *Associate Registrar for Operations*
 Maria Alvarez, *Associate Registrar for Scheduling and CAPP*
 Mariette Gimmartino, *Assistant Registrar for Information Management*
 Nancy Perreault, *Assistant Registrar*
 Elizabeth Wright, *Assistant Registrar*
 Linda Thompson, *Degree Auditor*

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 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 and does not include transfer credit.

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 academic 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 an academic 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 academic 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 resi-

dence 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 full-time and part-time 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 83 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 Requirements 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. No minor is required for students completing a double 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 com-

plete 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 website 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

Course Withdrawal Prior to Midpoint form, available on the Registrar's website at www.ccsu.edu/Registrar or in 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 After 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. 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 their 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 the School 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 office of the School of Graduate Studies, 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 will not be 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. Stu-

dents needing to demonstrate college-level proficiency in either or both English and math are required to successfully complete the appropriate courses within their first 24 academic credits. Students will have five opportunities to complete the courses by attending the Summer Sessions prior to and following their freshman year or the fall, winter, or spring semesters of their freshman year. Students who are unable to complete the proficiency requirements within the first 24 credits will not be allowed to register for credit courses within the Connecticut State University System until they have completed the courses elsewhere.

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 by 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 not adaptable to the methods of judicial or administrative decision-making. The educational 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:

For the appeal to be considered by the Grade Appeals Review Board, the following deadlines *must* be met.

- Student must meet with the instructor within the first *two weeks* of the full semester

following the semester in which the grade was awarded. Either the student or the faculty member may request that the initial meeting occurs in the presence of the department chair. If no meeting with the instructor occurred, the student should provide a statement as to why a meeting did not occur with the instructor within the two-week time limit.

In the event that the instructor is deceased or has left the University, the student should meet directly with the department chairperson in the next regular semester following the semester in which the disputed grade was given. 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 two weeks of receiving the appeal. Upon evidence of palpable injustice, the chairperson may make the appropriate grade change after consultation with and approval of the dean of the school. Written notification of the decision shall be made to the student within two weeks of receiving the appeal.

- If no resolution is achieved between the student and the instructor could not be contacted, the student has *two additional weeks* to submit the appeal in writing to the department chairperson. The student's written appeal must be clear and complete.

The department chairperson must provide the student and instructor with 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 and no resolution has occurred at the departmental level, the chairperson shall then forward the appeal and written decision to the appropriate dean.

The dean should try to take no more than *two weeks* to resolve the situation or forward the appeal to the Grade Appeals Review Board.

- A grade change shall be made only with the written consent of the instructor and the department chairperson, except as noted above in the case of death of the instructor or the instructor leaving University employment. The dean should provide the student,

instructor, and chairperson with a written decision within two weeks 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, or if the dean finds that the appeal has merit and cannot resolve the grade within the school, the dean shall then forward the appeal and written decision to the Grade Appeals Review Board.

- **Grade Appeal Review Board:** Any appeal after the completion of the steps above shall be made to the Grade Appeals Review Board, which functions under the aegis of the Academic Standards Committee. The appeal must be in written form, clean and complete, and provide a statement of justification for the grade sought. After receiving an appeal, the Grade Appeals Review Board may engage in a number of actions.

Following an investigation, the Grade Appeals Review Board may deny the appeal, in which case the matter shall be closed.

If the Grade Appeals Review Board makes a finding that the grading involved a palpable injustice, the case shall be remanded to the instructor and the dean of the instructor's school for reconsideration. The instructor may make the appropriate change in the grade with the written agreement of the dean. The dean will notify the Grade Appeals Review Board of the response taken. If the instructor disagrees or if the instructor's whereabouts are unknown, the Grade Appeals Review Board may recommend a grade change to the vice president for academic affairs. The vice president may make the appropriate grade change or issue a "W" (withdrawal). The instructor, the department chairperson, and the dean shall be notified in writing of such recommendations.

The Grade Appeals Review Board will endeavor to resolve all cases within the semester in which they are filed. When this is not possible, the chairperson of the Grade Appeals Review Board shall provide the provost and vice president of academic affairs, as well as the student, with written notification.

In no case shall a grade be lowered as a result of the appeal to the Grade Appeals Review Board.

- **Student Rights and Responsibilities:** Students shall receive timely notification during all steps of the appeals process.

When appealing a grade, students must provide a full written account, attaching all corresponding documentation outlined above. Students will not have the opportunity to supplement an appeal once it has been filed and received by the Grade Appeals Review Board, except to respond to a request from the Grade Appeals Review Board.

- **Faculty and Administration's Rights and Responsibilities:**

The Grade Appeals Review Boards shall notify in writing faculty, chairpersons, and deans of any board actions and requests.

Faculty shall return all graded student work or retain it until the end of the following regular academic semester. In no case shall faculty discard the graded work of a student who has filed an appeal.

Chairpersons and deans must endeavor to meet required deadlines as outlined in the Appeals for Grade Change Policy.

Deans will notify the Grade Appeals Review Board when a recommended grade change has taken place or has been rejected by the instructor.

- **The Grade Appeals Review Board:**

The Grade Appeals Review Board shall be made up of five instructional faculty members, elected under procedures determined by the Faculty Senate. Members shall serve a term of two years. The Grade Appeals Review Board is comprised of the Grade Appeals Committee.

- **The Grade Appeals Review Board Policies:**

The Grade Appeals Review Board will not accept evidence provided in person to the Grade Appeals Review Board and so does not allow students, non-Board faculty, administrators, or any other people to attend Review Board meetings.

At the conclusion of a grade appeals case, copies of materials provided to Grade Appeals Review Board members will be destroyed by the chair of the Grade Appeals Review Board. Original case documents will be turned over to the vice president of academic affairs to be stored until such time as the state code determines the documents may be destroyed under state guidelines. Students appealing cases are advised to keep copies of all documentation provided in the appeal as the originals provided will be held by the University following the decision of the Grade Appeals Board.

The Grade Appeals Review Board reserves the right to request grade and attendance information from the instructor and any other related materials from the

instructor and/or the appellant when the Grade Appeals Review Board believes that it can not make a fair decision without such information.

A student submitting a grade appeal to the Grade Appeals Committee must provide the following information for the file to be complete for consideration by the Grade Appeals Review Board: inventory list of materials provided or Table of Contents; completed required grade appeal form; related course syllabus; and any supporting documentation, such as graded assignments, medical documentation, statements from other students and/or faculty, and so forth. In the event that statements are provided by other persons than the student seeking the appeal and the faculty member providing the grade, the contact information for each person should be provided so the Grade Appeals Review Board may verify, if it wishes, the statements included. Five photocopies of the case should be provided to the Board.

Students should understand that the burden of proof is upon them to make the case that a "palpable injustice" or bias has occurred, and so the student should seek to make as strong a case as possible by including supporting documents to claims made. Students should also understand that the Grade Appeals Review Board does not have any predisposition to support either the instructor or the student, but seeks as fair a resolution to the appeal as it can determine.

The Grade Appeals Review Board reserves the right to extend deadlines when extraordinary circumstances exist where the Grade Appeals Review Board votes to allow the extension. Under no condition does extending a deadline in one case set precedent as each case and the related personnel form a unique situation.

Should the appeal case suggest to the Grade Appeals Review Board that other students in the course likely had their grades impacted as well as the grades of the appellant, the Grade Appeals Review Board shall contact in writing the department chair and dean of the school where the original appeal originated and suggest a review of the course in question.

The Grade Appeals Review Board will follow the appeals process as detailed above. If the appeal is forwarded to the Grade Appeals Review Board between May graduation and June 15, the chair will attempt to contact Grade Appeals Review Board members during the summer, however, there is no obligation for the Grade Appeals Review

Board to meet, given various off-semester commitments of the Grade Appeals Review Board members.

Anyone other than the appellant and related faculty and University administration who approaches the chair or other Grade Appeals Review Board members will be directed to the University Counsel to the President without any discussion whatsoever of a case.

A decision of the Grade Appeals Review Board to recommend a grade change is only a recommendation and does not guarantee that the action recommended will be followed.

The Grade Appeal Review Board will state its reasons for its recommendations in writing to the instructor, department chair, and dean in the case of recommending a grade change and to all parties in the case of an appeal denial.

The Grade Appeals Review Board will expect any appeals submitted in the fall semester to arrive no later than the last week in October and in the spring semester, no later than the last week in March. Appeals received after those dates may be held until the next semester. Appeals received before those dates will be expedited.

Originally Adopted by
the Faculty Senate
April 16, 1979

Revised by
the Faculty Senate
May 14, 2007

Acceptance of Non-Traditional Credit

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

Advanced Placement — The University accepts for college credit advanced placement courses taken in high school under the auspices of the College Entrance Examination Board's Advanced Placement Test Program provided the student achieves a minimum score of 3 on the test. Official score reports are requested by the Office of Admissions.

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

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

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

Placement Testing and Remedial Courses

All entering first-time students are required to take placement examinations in English, mathematics and foreign language prior to registration in order to determine their eligibility for ENG 110 (English Composition) and appropriate mathematics and foreign language courses. The English placement exam is not required of students who have a SAT verbal score of 450 or who have successfully completed ENG 099 or ESL 109. The foreign language placement exam is not required of students who have successfully completed three years of a single language in high school. (The high school transcript must be received by the Office of Admissions.)

Beginning in the fall semester 1992, remedial programs, 099 classes in Math and English, will be counted in determining full-time load status for students enrolled in those sections. In the computation of the credit load, each hour of instruction would be counted as one hour of credit. No remedial course will be counted for academic credit towards graduation.

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

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

- Students who transfer credit for ENG 110
- Students receiving transfer credit for MATH 099, MATH 101, 115, 121, 122, 125 or a 200-level calculus course need not take the Mathematics Accuplacer exam. Students with transfer credit for MATH 113, STAT 104 and/or MATH 105, *only*, must take the Accuplacer. Students receiving credit for a "math elective," or any other mathematics course, should contact the Mathematical Sciences Department about the need for the Accuplacer.
- The foreign language requirement did not apply to transfer students until fall 1992.

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

Placement testing dates are published on a regular schedule, and notices are sent to admitted students. Students transferring from other campuses of CSU should request forwarding of their Mathematics Placement

Exam to Central Connecticut State University's Mathematical Sciences Department.

Mathematics Placement Examination (MPE) — The Mathematics Accuplacer exam is administered to all entering and transfer (when appropriate) students, both full- and part-time. There is no passing or failing grade on this examination; its only purpose is to determine the student's background, for placement purposes, in mathematics. It is given on a continuous basis. Since the purpose of the exam is initial placement, once a student has started his/her mathematics course sequence, he/she is no longer eligible to take the exam. While the results of the exam are deemed to be valid for the career of the student while at Central Connecticut State University, practical experience indicates that the mathematics sequence/courses should be started as soon as possible after taking the MPE. A student, under extenuating circumstances, may retake the MPE only after obtaining permission from the Mathematical Sciences Department chair or MPE coordinator. The examination is provided free of charge as part of the department's commitment to the quality of its course offerings.

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

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

Full-time students who may wish to take courses at other Greater Hartford area institutions should check with the Registrar about the Hartford Consortium Cross-Registration Program. See page 118 for more information.

Attending Other Institutions — Students enrolled at Central Connecticut State University who wish to take courses at other accredited institutions should complete the Request for Transfer Credit form with the Office of Admissions. Students who wish to apply transfer credits to specific degree requirements should seek advice from the appropriate department chair or academic dean as to how the credit may be applied. Only courses carrying a grade of C- or better will be accepted in transfer. The School of Education and Professional Studies may

have different requirements. See page 83 of the catalog for more information.

Declaration of Major

A student should select a major after consultation with an advisor. Forms to declare the major are available on the Registrar's Web site at www.ccsu.edu/Registrar or in the Enrollment Center/Office of Continuing Education. See requirements for majors under separate departmental listings.

Change of Major or Degree

Objective—To change or declare a degree program, major or minor, a student must obtain a Major and Program Change Form on the Registrar's Web site at www.ccsu.edu/Registrar or in the Enrollment Center/Office of Continuing Education, obtain the necessary signatures and return it to the Office of Registrar.

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

Course Substitution — Departmental chairs may approve the substitution of one course for another within the major or minor. The student should obtain the appropriate form on the Registrar's Web site at www.ccsu.edu/Registrar or in the Enrollment Center/Office of Continuing Education, have it signed by the chairs involved, and submit the completed form to the student's academic dean who then forwards it to the Registrar's Office. See page 63 for information on course substitution in the Design (Graphic/Information) Department which differs slightly from this process.

Undergraduate Student Leave of Absence Policy

A Leave of Absence is a period of separation from CCSU for up to two consecutive semesters. During this time a student maintains his or her matriculation and is entitled to return to CCSU. The Undergraduate Student Leave of Absence enables students to return after a maximum two-semester absence from campus. Students with this status need not apply for readmission. Students may register for classes during the normal registration period based on cumulative credits earned both in transfer and at CCSU. This policy does not supersede any existing University withdrawal policy.

Students desiring a Leave of Absence must:

- Be matriculated and enrolled in the semester immediately preceding the Leave of Absence;

- Address any outstanding financial obligations with the Bursar;
- Have no disciplinary action pending.

Leave of Absence Process:

- Forms are available on the Web at www.ccsu.edu/registrar
- Complete the Leave of Absence Application and return it to the Office of the Registrar.

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 reactivation 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. Refer to www.ccsu.edu/Registrar for further details.

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 bor-

rowed 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 presence 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 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 (5) consecutive days *or less* should, upon return, explain the absence to the instructor.
- A student absent from class for more than five (5) days, who has not been seen as a patient in the University Health Service for the evaluation of the illness, should submit verification of the absence from his/her physician to the Office of Student Affairs. Notification of a student's absence will be relayed to the appropriate professor only if a physician's verification is submitted at the time of the request for notification.
- Students are expected to notify instructors in advance for absences related to official University trips, conferences, intercollegiate athletic events, musical performances, and other events.
- 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 athletic achievement 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 Effectiveness (860-832-1780) or by going to Key Performance Indicators at www.ccsu.edu/planning/ir/statistics/historical/default.html.

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, and Bachelor of Science in Nursing. A summary of these programs appears on the following pages of this section.

The University offers graduate programs leading to the degrees of Master of Science, Master of Arts, Master of Arts in Teaching, the Sixth-Year Certificate in Reading and in Educational Leadership, and the Doctor of Education. Non-degree graduate-level planned programs include post-baccalaureate programs that lead to teacher certification and official certificate programs for professional enhancement. 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, and the School of Graduate Studies. Courses applicable to most degree programs are offered through the Enrollment Center for Winter and Summer Sessions.

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.

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 the declaration of the new major.

A minor — a secondary field of study (between 18 and 24 credits) — is required for certain majors. No minor is required for students completing a double major. 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.

Bachelor of Science in education students who complete certain minors, in conjunction with a major area of study, 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 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 55 for a complete listing of credits required for each degree.

General Education

In addition to offering baccalaureate degrees, the University aims to provide students with the basic foundations for life-long 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:

- Objective: To develop and enhance appreciation for the arts and humanities. Relevant outcomes include: the ability to engage in literary, philosophic, and artistic expression, response, and analysis.
- Objective: To develop and enhance global awareness, civic responsibility, appreciation of cultural diversity, and historical awareness. Relevant outcomes include: analyzing an issue from the perspective of another cultural tradition; taking a public stance that considers the interests of the wider community; demonstrating a basic ability to read, write, speak, and comprehend a foreign language; and analyzing an issue from a historical perspective.
- Objective: To develop scientific understanding of the natural and social worlds. Relevant outcomes include: the ability to generate hypotheses and to assess the validity of evidence.

- Objective: To develop critical thinking and critical reading skills. Relevant outcomes include: defining a problem, assembling evidence to support a conclusion, assessing the validity of a sustained argument, and analyzing information to uncover underlying meanings, structures, and patterns.
- Objective: To strengthen writing and communication skills. Relevant outcomes include: developing a chosen topic, organizing specifics to support a main idea, using proper grammar, addressing a particular audience, and revising and editing to produce focused and coherent texts.
- Objective: To strengthen quantitative skills. Relevant outcomes include: applying mathematical and statistical techniques as a means of analysis within a variety of disciplines and assessing the strengths and weaknesses of these techniques of analysis.
- Objective: To develop computer literacy. Relevant outcomes include: the ability to use computers for research, analysis, and expression, and analyzing the effects of computers on society.
- Objective: To foster personal health and fitness. Relevant outcomes include: the development and maintenance of improved physical health, wellness, and lifetime activity skills.

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. 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. A maximum of 8 credits in the Study Area portion and a maximum of 8 credits in the Skill Area portion of the General Education program may be fulfilled by major and/or minor courses that are designated as applicable to General Education, with no more than 8 credits total from any one field of study. 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 200-level literature (see page 52 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, biomolecular science, chemistry, earth science and physics.)

Skill Areas

I. Communication Skills 6 credits
ENG 110 required.* 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:

- Three sequential years of one foreign language at the high-school level.
- Elementary proficiency as demonstrated by successfully completing a second-semester-level CCSU foreign-language course (112), or the equivalent at another institution. Students with no previous background in a language must take the first and second semesters (111 and 112, or 118); students who place out of 111 due to previous background in the lan-

guage may satisfy the requirement by taking 112 only.

- Passing a standardized examination that demonstrates knowledge of a foreign language equivalent to completion of a second-semester course or higher.
- Successful completion of a foreign-language course at a level higher than the second-semester level.
- 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) is required of all students entering with fewer than 15 credits, and it is recommended that it be taken in the student's first year. 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 appears at the start of the Course section of this catalog.

*All entering students are required to take Freshman Composition (ENG 110), which is an introductory course in expository writing, unless exempt due to previous coursework. A score of 450 on the Writing or Critical Reading portion of the SAT (or 21 on the ACT) is needed to enroll in Freshman Composition. If a student's SAT Writing score is below 450 (or 21 on the ACT), the student will be required to complete Remedial English (ENG 099), which focuses on improvement of basic writing skills, prior to taking ENG 110. Student writing is assessed during the first week of class. Course adjustments may be made if, based on the writing assessment, it is determined that a student is enrolled in the wrong writing course.

Writing Requirement. When 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 six credits in courses designated as "international" [I]. The "international" designation applies to all courses that substantially contribute to the understanding of the cultural expressions or social, political, and economic conditions of a particular region or country other than the United States. It also applies to courses that systematically offer a comparative international perspective and/or explore contemporary global issues. International courses are indicated by [I] at the end of their course descriptions, which begin on page 121 of this catalog.

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. Note: TE 110, ENGR 150, and certain FYS courses, designated as such at the time of their creation, do not require the additional FYE 101 course.

General Education Program. Students must complete either the current General Education program or the program that was in place at the time of their original matriculation at CCSU. Students who entered prior to Fall 1999 and would like to complete the current program must file a General Education Program Change Form with the Registrar.

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; undergraduates require a minimum 3.00 GPA and 90 credits of study, approval of undergraduate advisor, instructor, chair of the department offering the course and Dean of the School of Graduate Studies, who will give preferential admission to graduate students.
- 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 2005–2006, that fall or the next spring. One marked (E), even year, would be available in an even-starting academic year, such as 2006–2007, that fall or the next spring. If unspecified, the course is offered both semesters.

International Courses

Courses with the letter [I] have been designated as fulfilling the *international component* of the General Education requirements. See page 50. The following is a list of courses with the [I] designation. This list will take effect for the spring 2008 semester.

- AMS 422 Native Americans
- ANTH 140 Introduction to Anthropology
- ANTH 170 Introduction to Cultural Anthropology
- ANTH 239 Work and Culture
- ANTH 240 The Supernatural
- ANTH 350 Men and Women in Different Cultures
- ANTH 416 Archaeology of Africa
- ANTH 422 Native Americans
- ANTH 424 Peoples and Cultures of Africa
- ANTH 426 People and Cultures of Eastern Europe
- ANTH 428 Cultures of Latin America
- ART 110 Introduction to Art History
- ART 112 History of Art I
- ART 113 History of Art II
- ART 210 Greek Art
- ART 216 Modern Art
- ART 218 Renaissance Art
- ART 412 Oriental Art
- ART 494 Location Studies—Art
- BIO 132 Introductory Ecology
- CHIN 125 Intermediate Chinese I
- CHIN 126 Intermediate Chinese II
- CHIN 341 The Chinese Heritage I
- CHIN 342 The Chinese Heritage II
- CHIN 351 Modern Chinese Literature I
- CHIN 352 Modern Chinese Literature II
- CHIN 410 Business Chinese I
- CHIN 411 Business Chinese II
- DAN 299 Dance History
- DES 419 History of Design
- ECON 430 International Economics
- ECON 435 Economic Development
- ENG 203 World Literature I
- ENG 204 World Literature II
- ENG 214 Studies in International Literature
- ENG 215 Introduction to Women Writers
- ENG 262 Introduction to Drama
- ENG 347 Latino/a Literature
- ENG 365 The Modern European Novel
- ENG 465 Global Cinema
- ENG 488 Studies in World Literature
- ETM 340 Geometric Dimensioning & Tolerancing
- FIN 330 International Finance
- FR 125 Intermediate French I
- FR 126 Intermediate French II
- FR 151 French for Reading Knowledge
- FR 225 Essential Skills in French I
- FR 226 Essential Skills in French II
- FR 261 Business French
- FR 301 Approaches to Reading French Texts
- FR 302 Masterpieces of French Literature
- FR 315 Aspects of French History & Culture
- FR 316 Contemporary France
- FR 350 Topics in French Literature, Culture, and Language
- FR 441 Advanced Oral Practice
- FR 451 The Structure of Modern French
- FR 460 Advanced Grammar & Composition

- FR 472 Studies in French Culture
- GEOG 120 World Regional Geography
- GEOG 220 Human Geography
- GEOG 244 Economic Geography
- GEOG 290 Geography of Tourism
- GEOG 291 National Parks and World Heritage Sites
- GEOG 333 Political Geography
- GEOG 434 Mexico, Central America, and the Caribbean
- GEOG 435 Japan and Korea
- GEOG 436 South American
- GEOG 437 China
- GEOG 446 Sub-Saharan Africa
- GEOG 448 Russia and Neighboring Regions
- GEOG 452 European Union
- GEOG 459 Field Studies in Regional Geography
- GER 125 Intermediate German I
- GER 126 Intermediate German II
- GER 225 German Composition & Diction
- GER 226 German Structure and Idiom
- GER 304 Literary Masterpieces to 1800
- GER 305 Literary Masterpieces since 1800
- GER 315 German Civilization to 1800
- GER 316 German Civilization from 1800 to Present
- GER 335 Advanced Composition and Diction
- GER 336 Advanced Structure & Idiom
- GER 379 19th Century German Literature
- GER 380 20th Century German Literature
- GER 451 The Sound and Structure of German
- HIST 121 World Civilization I
- HIST 122 World Civilization II
- HIST 231 Ancient Mediterranean World
- HIST 232 Medieval Europe
- HIST 251 East Asia to 1800
- HIST 252 East Asia since 1800
- HIST 271 Introduction to African History and Culture
- HIST 277 History of Christianity I
- HIST 278 History of Christianity II
- HIST 281 Latin American History to 1823
- HIST 282 Latin American History since 1823
- HIST 291 Modern Middle East
- HIST 292 History of Judaism
- HIST 341 English History to 1715
- HIST 342 English History since 1715
- HIST 343 Modern Ireland: 1690-Present
- HIST 344 History of Modern Germany
- HIST 347 History of Russia I
- HIST 348 History of Russia II
- HIST 353 History of Modern China
- HIST 354 History of Modern Japan
- HIST 356 History of East Central Europe since 1919
- HIST 373 The African Diaspora in the Caribbean since 1500
- HIST 375 History of Africa to 1800
- HIST 376 History of Africa Since 1800
- HIST 379 History of Poland: from the Piasts to Partition, 966-1795
- HIST 380 Modern Poland
- HON 130 World Cultures I
- HON 230 World Cultures II: Topics in World Cultures
- HON 250 Western/World Culture III: Comparative Topics
- HUM 250 Topics in European Literature
- HUM 290 Studies in Modern Civilization

- HUM 490 The Culture and Civilization of Other Lands
- HUM 494 Foreign Study Through Travel
- IB 491 Special Topics in International Business
- IB 495 Field Studies in International Business
- IB 498 Seminar in International Business
- IS 225 The World as a Total System
- IS 226 Intercultural Sensitivity
- IS 240 Caribbean Cultural Patterns
- IS 245 Puerto Rico
- IS 490 Field Studies Abroad
- IS 497 Seminar in International Studies
- ITAL 125 Intermediate Italian I
- ITAL 126 Intermediate Italian II
- ITAL 190 Italian for Italian Speakers
- ITAL 225 Italian Composition and Diction
- ITAL 226 Italian Structure and Idiom
- ITAL 260 Introduction to Business Italian
- ITAL 304 Literary Masterpieces to 1700
- ITAL 305 Literary Masterpieces Since 1700
- ITAL 315 Italian Civilization to 1861
- ITAL 316 Italian Civilization from 1861 to the Present
- ITAL 335 Advanced Composition and Diction
- ITAL 336 Advanced Structure and Idiom
- ITAL 441 Advanced Oral Practice
- ITAL 460 Advanced Written Italian
- ITAL 470 14th-Century Italian Literature
- ITAL 476 16th-Century Italian Literature
- ITAL 488 Italian Life and Culture
- JAPN 125 Intermediate Japanese I
- JAPN 126 Intermediate Japanese II
- JAPN 225 Japanese Composition and Diction
- JAPN 226 Japanese Structure and Idiom
- JAPN 335 Advanced Composition and Diction
- JAPN 336 Advanced Structure and Idiom
- LAS 235 International Relations
- LAS 316 Latin American Civilization
- LAS 428 Cultures of Latin America
- LING 230 The Study of Language
- MATH 344 Mathematics in Diverse Cultures
- MGT 321 International Management
- MGT 462 International Human Resource Management
- MKT 321 International Marketing
- MUS 110 Listening to Classical Music
- MUS 111 Music of the World's People
- MUS 211 Ethnomusicology
- MUS 235 Music History I
- MUS 236 Music History II
- MUS 335 Music History III
- PHIL 250 Introduction to Asian Philosophy
- PHIL 260 African Philosophy
- PHIL 275 Chinese Philosophy
- PHIL 332 The Age of Ideology
- PHIL 345 Philosophy of War & Peace
- PHIL 366 Existentialism
- PHIL 376 Buddhist Philosophy
- POL 125 Intermediate Polish I
- POL 126 Intermediate Polish II
- PS 104 The World's Political Systems
- PS 235 International Relations
- PS 338 International Organization
- PS 339 International Law
- PS 345 International Terrorism
- PS 380 International Conflict and Security
- PS 336 West European Governments
- PS 420 Government and Politics of Latin America
- PS 421 Government and Politics of Africa
- PS 425 Asian Politics
- PS 434 Government and Politics of the Middle East and North Africa
- PS 435 Russian and Eastern Europe
- PSY 350 Cross-Cultural Psychology
- REL 110 World Religions
- REL 250 Japanese Religion
- REL 256 Philosophy, Religion, and Culture
- SOC 426 Sociology of Revolution
- SOC 428 Globalization and Its Discontents
- SPAN 123 Basic Spanish Review
- SPAN 125 Intermediate Spanish I
- SPAN 126 Intermediate Spanish II
- SPAN 128 Intensive Intermediate Spanish I
- SPAN 190 Language for Heritage Speakers of Spanish I
- SPAN 191 Spanish for Spanish Speakers II
- SPAN 225 Intermediate Spanish III
- SPAN 226 Intermediate Spanish IV
- SPAN 261 Business Spanish
- SPAN 290 Language for Heritage Speakers of Spanish II
- SPAN 291 Hispanic Culture for Heritage Speakers of Spanish II
- SPAN 300 Literary Analysis
- SPAN 304 Literary Masterpieces to 1700: Spain
- SPAN 305 Literary Masterpieces since 1700: Spain
- SPAN 315 Spanish Civilization
- SPAN 316 Latin American Civilization
- SPAN 335 Advanced Spanish for Oral Expression
- SPAN 336 Advanced Spanish Composition
- SPAN 375 Spanish American Literature I
- SPAN 376 Spanish American Literature II
- SPAN 441 Cross-Cultural Communication
- SPAN 461 Topics in Spanish-American Literature
- SW 440 Social Work Practice with African Americans
- SW 441 Puerto Ricans in Transition: A Social Work Perspective
- SW 442 The Social Consequences of Immigration
- TH 222 History of Fashion
- WGSS 335 Women, Marriage, and Family in Early Modern Europe
- FR 301 Approaches to Reading French Texts
- FR 302 Masterpieces of French Literature
- GER 304 Literary Masterpieces to 1800
- GER 305 Literary Masterpieces since 1800
- HUM 250 Topics in European Literature
- ITAL 304 Literary Masterpieces to 1700
- ITAL 305 Literary Masterpieces Since 1700
- SPAN 304 Literary Masterpieces to 1700: Spain
- SPAN 305 Literary Masterpieces since 1700: Spain
- SPAN 375 Spanish American Literature I
- SPAN 376 Spanish American Literature II

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 49.

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 [I]
- ART 112 History of Art I [I]
- ART 113 History of Art II [I]
- ART 120 Design I
- ART 124 Three-Dimensional Design
- ART 130 Drawing I
- ART 216 Modern Art [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
- DAN 299 Dance History [I]
- DES 100 Introduction to Graphic/Information Design
- DES 122 Fundamentals of Graphic/Information Design
- ENG 203 World Literature I [I] [L]
- ENG 204 World Literature II [I] [L]
- ENG 205 British Literature I [L]
- ENG 206 British Literature II [L]
- ENG 210 American Literature I [L]
- ENG 211 American Literature II [L]
- ENG 212 African-American Literature [L]
- ENG 213 Studies in American Literature [L]
- ENG 214 Studies in International Literature [L]
- ENG 215 Introduction to Women Writers [L]
- ENG 220 Shakespeare [L]
- ENG 250 Contemporary Literature [L]
- ENG 260 Introduction to Poetry [L]
- ENG 261 Introduction to Fiction [L]
- ENG 262 Introduction to Drama [L]
- ENG 347 Latino/a Literature [L]

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 49. The following is a list of courses with the [L] designation.

- ENG 203 World Literature I
- ENG 204 World Literature II
- ENG 205 British Literature I
- ENG 206 British Literature II
- ENG 210 American Literature I
- ENG 211 American Literature II
- ENG 212 African-American Literature
- ENG 213 Studies in American Literature
- ENG 214 Studies in International Literature
- ENG 215 Introduction to Women Writers
- ENG 220 Shakespeare
- ENG 250 Contemporary Literature
- ENG 260 Introduction to Poetry
- ENG 261 Introduction to Fiction
- ENG 262 Introduction to Drama
- ENG 347 Latino/a Literature

- ENG 213 Studies in American Literature [L]
 ENG 214 Studies in International Literature [I] [L]
 ENG 215 Introduction to Women Writers [I] [L]
 ENG 220 Shakespeare [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]
 FR 302 Masterpieces of French Literature [I] [L]
 FYS 101 First Year Seminar—Arts and Humanities
- GER 304 Literary Masterpieces to 1800 [I] [L]
 GER 305 Literary Masterpieces Since 1800 [I] [L]
 HON 110 Western Culture I
 HON 210 Western Culture II: Topics in Western Culture
- HON 440 Writing & 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]
 LAS 376 Spanish-American Literature II
 MUS 100 Search in Music
 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
 MUS 214 Electro-acoustic Music and Sonic Art
 PHIL 100 Search in Philosophy
 PHIL 112 Introduction to Philosophy
 PHIL 121 Introduction to Philosophy through Literature
 PHIL 125 Introduction to Philosophy through Popular Culture
 PHIL 135 Nature, Mind, and Science
 PHIL 144 Moral Issues
 PHIL 232 Medieval and Renaissance Philosophy
 PHIL 235 Philosophy of Social Science
 PHIL 241 Environmental Ethics
 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]
 REL 257 Special Topics in Religion
 SPAN 304 Literary Masterpieces to 1700: Spain [I] [L]
 SPAN 305 Literary Masterpieces Since 1700: Spain [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]
 AMS 241 Introduction to Planning
 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
 ET 399 Engineering Economy
 FR 315 Aspects of French History & Culture [I]
 FR 316 Contemporary France [I]
 FYS 102 First Year Seminar—Social Studies
 GEOG 100 Search in Geography
 GEOG 110 Introduction to Geography
 GEOG 120 World Regional Geography [I]
 GEOG 130 Intro. to Geography Information Science
 GEOG 220 Human Geography [I]
 GEOG 223 Geography of the 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]
 GEOG 333 Political Geography [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 161 American History to 1877
 HIST 162 American History from 1877 to Present
 HIST 231 Ancient Mediterranean World [I]
 HIST 232 Medieval Europe [I]
 HIST 233 Renaissance and Enlightenment Europe
 HIST 234 Modern Europe
 HIST 251 East Asia to 1800 [I]
 HIST 252 East Asia since 1800 [I]
 HIST 253 History of the South Pacific
 HIST 271 Intro. to African History and Culture [I]
 HIST 277 History of Christianity I [I]
 HIST 278 History of Christianity II [I]
 HIST 281 History of Latin America to 1823 [I]
 HIST 282 History of Latin America since 1823 [I]
 HIST 291 Modern Middle East [I]
 HIST 292 History of Judaism [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 & Research IV: Thesis Workshop
 IMS 110 Cyberspace and Society
 IS 225 The World as a Total System [I]
 IS 240 Caribbean Cultural Patterns [I]
 IS 245 Puerto Rico [I]
 ITAL 315 Italian Civilization to 1861 [I]
 ITAL 316 Italian Civilization from 1861 to the Present [I]
 LAS 235 International Relations [I]
 LAS 316 Latin American Civilization [I]
 PES 110 Introduction to the Study of Peace & War
 PES 111 War & Peace through Films
 PS 104 The World's Political Systems [I]
- PS 110 American Government & Politics
 PS 230 American State and Local Government
 PS 235 International Relations [I]
 PS 260 Public Administration
 PS 280 Religion & Politics
 PS 315 Internet & 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 Archaeology
 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
 ANTH 240 The Supernatural [I]
 COMM 215 Intro. to Interpersonal Communication
 COMM 230 Introduction to Mass Media
 CRM 220 Ideology & Violence
 CRM 230 Law Enforcement & Society
 CRM 245 Diversity and Criminal Justice
 FYS 103 First Year Seminar—Behavioral Sciences
 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
 SW 100 Explorations in Social Work
 WGSS 200 Introduction to Women, Gender and Sexuality Studies
 WS 240 The Sociology of Gender
- STUDY AREA IV**
 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 [I]
 BIO 133 Laboratory in Introductory Ecology
 BIO 150 Long Island Sound—Introductory Ecology
 BIO 170 Introductory Field Studies in Biology
 BIO 211 Concepts in Biology
 BIO 230 Natural History
 BMS 100 Search in Biomolecular Sciences
 BMS 101 Search in Biomolecular Sciences with Lab
 BMS 102 Introduction to Biomolecular Science
 BMS 103 Introduction to Biomolecular Science Laboratory

BMS 111 Cells and the Human Body
 BMS 113 Laboratory Experience in Biomolecular Science
 BMS 201 Principles of Cell and Molecular Biology
 CHEM 102 Chemistry of Nutrition
 CHEM 111 Introductory Chemistry
 CHEM 116 Introduction to Forensic Chemistry
 CHEM 150 Chemistry of Allied Health I
 CHEM 152 Chemistry of Allied Health II
 CHEM 161 General Chemistry I
 CHEM 162 General Chemistry I Laboratory
 CHEM 163 General Chemistry II
 CHEM 164 General Chemistry II Laboratory
 ESCI 100 Search in Earth Science
 ESCI 101 Search in Earth Science with Laboratory
 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 129 Introduction to Meteorology
 ESCI 178 Planetary Astronomy
 ESCI 179 Stellar Astronomy
 ESCI 278 Observational Astronomy
 ET 241 Applied Statics and Strength of Materials
 FYS 104 First Year Seminar—Natural Sciences
 GEOG 272 Physical Geography
 GEOG 275 Soils and Vegetation
 HON 120 Science & Society I
 ISCI 104 Science Connections
 ISCI 118 Women's Contributions to Stellar and Galactic Astronomy
 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

SKILL AREA I

COMM 115 Fundamentals of Communication
 COMM 140 Public Speaking
 COMM 256 Professional Communication
 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
 FYS 105 First Year Seminar—Communication Skills
 HON 140 Writing & Research I
 HON 441 Writing & Research III: Honors Thesis
 PHIL 220 Introduction to Logic

SKILL AREA II

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 Computing I
 CS 214 Applications of Computing II
 FYS 106 First Year Seminar—Mathematics and Computer Science
 MATH 105 Survey of Mathematics for Liberal Arts
 MATH 106 Mathematical Topics for Liberal Arts

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 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
 CHIN 125 Intermediate Chinese I [I]
 CHIN 126 Intermediate Chinese II [I]
 FR 111 Elementary French I
 FR 112 Elementary French II
 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]
 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
 ITAL 118 Intensive Elementary Italian [I, 3 credits only]
 ITAL 123 Basic Italian Review
 ITAL 125 Intermediate Italian I [I]
 ITAL 126 Intermediate Italian II [I]
 ITAL 190 Italian for Italian Speakers [I]
 ITAL 225 Intermediate Italian III [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
 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
 ML 111 Elementary Modern Language I
 ML 112 Elementary Modern Language II
 ML 125 Intermediate Modern Language I
 POL 111 Elementary Polish I
 POL 112 Elementary Polish II
 POL 125 Intermediate Polish I [I]
 POL 126 Intermediate Polish II [I]
 SPAN 111 Elementary Spanish I
 SPAN 112 Elementary Spanish II
 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 Language for Heritage Speakers of Spanish 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 Language for Heritage Speakers of Spanish II [I]
 SPAN 291 Hispanic Culture for Heritage Speakers of Spanish II [I]

SKILL AREA IV

PE 144 Fitness/Wellness Ventures (required of all students entering with fewer than 15 credits and recommended to be taken in a student's first year)
 CET 113 Introduction to Information Processing
 CS 115 Workshop in Computer Science
 CS 210 Computing and Culture
 ENGR 150 Introduction to Engineering
 GRT 112 Digital Imaging for Graphics Technology
 GRT 212 Graphic Arts Processes
 IMS 210 Multimedia Computing
 LSC 150 Library Resources and Skills
 RDG 140 Reading Efficiency

UNDERGRADUATE FIELDS OF STUDY

FIELD OF STUDY/MAJOR	DEGREE		MINOR OFFERED With BS or BA (Does not lead to teaching certification)
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits	
Accounting	BS		
Anthropology**	BA		Yes
Art	BA	BS	Yes
Athletic Training***	BS		
Biochemistry	BS		
Biology**	BS	BS	Yes
Biomolecular Sciences**	BS		Yes
Chemistry**/****	BS	BS	Yes
Communication**	BA		Yes
Computer Engineering Technology	BS (124 credits)		
Computer Science	BS (Honors)/BS (Alt.)		Yes
Construction Management	BS (130 credits)		
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	
General Science		BS	Yes
German		BS	
History/Social Studies		BS	
Italian		BS	
Mathematics		BS	Yes
Physics		BS	Yes
Spanish		BS	
NK-12			
Art Education		BS	
Music Education		BS	
Physical Education		BS	
Tech. & Engineering Education		BS	
Electronics Technology	BS		
Engineering Technology	BS (130 credits)		
Civil			
Manufacturing			
Mechanical			
English**	BA	BS	Yes
Exercise Science & Health Promotion (PE)	BS		

FIELD OF STUDY/MAJOR	DEGREE		MINOR OFFERED With BS or BA (Does not lead to teaching certification)
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits	
Finance**	BS		
French	BA	BS	Yes
General Science**	BS	BS	Yes
Geography**	BA	BS (Elementary)	Yes
German	BA	BS	Yes
Graphic/Information Design	BA		
History	BA	BS	Yes
Hospitality and Tourism	BS		
Industrial Technology**	BS		
International Business**	BS		
International Studies**	BA		Yes
Italian	BA	BS	Yes
Management**	BS		
Management Info. Systems	BS		
Marketing	BS		
Mathematics**	BA	BS	Yes
Mechanical Engineering	BS (130 credits)		
Music**	BA	BS	Yes
Nursing**/****	BSN (125 credits)		
Philosophy**	BA		Yes
Physical Education***	BS	BS	
Physics	BS	BS	Yes
Political Science**	BA		Yes
Psychology**	BA		Yes
Social Sciences		BS	
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.

***See departmental listing for accreditation information.

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

Susan E. Pease, Dean
Richard L. Roth, Associate Dean
Paul L. Altieri, Assistant to the Dean
Phone: 860-832-2600
Fax: 860-832-2601
Website: www.artsci.ccsu.edu

The School of Arts and Sciences offers programs leading to the BA degree, the BS degree, and the BFA degree. 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

Faculty

M. A. Park, *Chair*; A. E. Adams, K. L. Feder, D. A. Kideckel, W. Perry, E. N. Phillips (*Dept. phone 860-832-2610, 2611, or 2966*)

Department Overview

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 Department of Anthropology 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.

Programs

MAJOR IN ANTHROPOLOGY, BA

39 credits in Anthropology, including ANTH 150, 160, 170, 335, 340, 374, 375, 490; one area studies course from ANTH 401, 416, 418, 420, 422, 424, 426, 428; one course from ANTH 433, 437, 451; and nine credits from elective courses in Anthropology, with all of the electives at the 300 level or higher. A minor is required for this major.

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, 230, 322, 323, 329, 416, 418, and 420. 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, 245, 265, 335, and 365, 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, 340. 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, 270, 374, 401, and 437. For students majoring in anthropology, three credits of this minor may be applied to the major.

ART

Faculty

C. Marshall, *Chair*; M. Alewitz, C. Broadus-Garcia, J. Buxton, S. O. Fafunwa-Ndibe, S. Gallagher, V. Garcia, F. Hentschel, E. Langhorne, R. Siporin, M. Strathy, R. Todd (*Dept. phone 860-832-2620; website: www.art.ccsu.edu*)

Department Overview

The Art Department offers two degree programs, a BS in art education for students who wish to pursue a career in teaching art and a BA in art which provides students with options in studio areas, such as ceramics, design, illustration, painting, photography, printmaking, and sculpture, as well as art history. Study options also exist in new media arts, mural painting, and other new genres. Both conceptual and technical excellence is stressed within a curriculum that encourages diverse forms of creative expression. Study plans are developed on an individual basis consistent with the goals identified by the student and advisor. This allows students the pursuit of diverse interests that match the individual. Recent graduates have begun successful careers as art teachers and practicing fine and commercial artists. Graduates from our BA program have been accepted in nationally known MFA pro-

grams, and our BS in art education alumni are prominent art education leaders throughout the state. The department houses the Samuel S. T. Chen Fine Arts Center, a gallery exhibiting works by nationally and internationally recognized artists and providing a venue for student and faculty exhibits. The gallery also provides opportunities to study curatorship, leading to career possibilities in museum studies. Options abound for internships with business and industry, community-based organizations, museums, galleries, and schools.

Programs

MAJOR IN ART, BA

60 credits, as follows:

Core (21 credits): ART 112, 113, 120, 124, 130, 216, and 230.

Individual Planned Program of Study (18 credits):

To be developed in conjunction with departmental advisor and includes a minimum of 9 sequential credits in one area. Art majors must complete 15 credits in courses at the 300-level or above.

Directed Electives for a Minor in Art (18 credits):

Major-related electives, selected in consultation with advisor, or a minor in another department

Capstone (3 credits):
ART 499

A portfolio review is required of all BA in art majors.

MAJOR IN ART EDUCATION, BS

(Certifiable for K–12 teaching)

45 credits, as follows:

Core (36 credits):

ART 112, 113, 120, 124, 130, 240, 252, 260, 261, 263, 491, and one additional three-credit 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.)

Directed Electives (3 credits, as necessary to meet program requirements):

Chosen in consultation with advisor.

No minor is required for BS in art education students.

Students interested in art education should also read “Professional Program for Teacher Certification” in the School of Education and Professional Studies section on page 83 of this catalog.

A portfolio review is required of all BS in art education majors.

Portfolio Requirement

All art majors must submit a portfolio of 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 (or higher) studio course without a successful portfolio review.

MINOR IN ART

18 credits in art are required and must include: ART 112 or 113; ART 130; ART 120 or 124. Remaining courses must be selected in consultation with the Department of Art advisor.

BIOLOGY

Faculty

J. N. Jarrett, *Chair*; D. R. Carter, T. M. Doan, S. L. Halkin, M. E. Jackson, T. Mione, B.J. Nicholson, P. Osei, C. A. Penniman, R. E. Rollin, D. A. Spector, J. T. Tessier (*Dept. phone 860-832-2645*)

Department Overview

The Department of Biology has full-time faculty representing the major specializations within the broad field of biology. Copernicus Hall houses 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, photosynthesis research laboratory, molecular genetics research laboratory, controlled environment room, computer laboratory, 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.

Programs

MAJOR IN BIOLOGY, BS (Non-Teaching)

Core (14–16 credits): BIO 121, 122, 200, 290, and either BIO 390 or 391.

General Biology (32 total credits in Biology required)

Core, plus 16–18 credits of any other 200-level or higher BIO or BMS courses. Please note that upper-level BMS courses require BMS 201, which can count as an elective in the general biology major. Other electives may be approved at the discretion of the department chair. In addition 28–30 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213; 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.

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

Core, plus 13–15 credits as follows: One of BIO 302, 405, 434, 440, 480; one of BIO 315, 322, 326, 327, 420, 421, 425, 444; any advanced courses in the E/B/E Group (see list below). In addition 28–30 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213; 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

BIO 230, 302, 315, 322, 326, 327, 405, 410, 420, 421, 425, 434, 436, 438, 440, 444, 470 (1–4 credits), 480, 481, 488, 489, 490** (3–4 credits), 491** (1–3 credits), 499**

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

Specialization in Environmental Science (28–32 total credits in biology required)

Core, plus 14–16 credits as follows: Either BIO 436 or 438; one of BIO 315, 322, 326, 327, 420, 421, 425, 444, one of BIO 331, 410, 412/413, 449/450; either BIO 405 or 434. In addition 38–41 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213, 301, 406; either ESCI 121 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 organizations, and the environmental industry, or for graduate studies in these areas.

MAJOR IN BIOLOGY, BS (Certifiable for teaching grades 7–12)

37 credits in biology as follows: BIO 121, 122, 200, 290, 390; one of BIO 322, 420, 421, 481; one of BIO 326, 327, 425, 444; one of BIO 302, 315, BMS 306, 316; one of BIO 318, 319, 331, 410, 412/413, 449/450. At least one course in BIO or BMS must be at the 400-level. Please note that upper-level BMS courses require BMS 201, which can count as an elective in the Biology major. In addition MATH 124, or

MATH 125 and 115; CHEM 161/162, 163/164, 250; PHYS 121, 122; and professional education courses EDTE 316, 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 Biology are required to complete a student portfolio. Minimally, the student portfolio must include a current resume, a current Student Graduation Evaluation (available from the Department of Biology) 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 biology, the student portfolio must be reviewed with one or more faculty members in biology as a course requirement in BIO 200, 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 Department of Biology and signed by the major advisor) to the biology chair.

MINOR IN BIOLOGY (Certifiable for secondary teaching)

20 credits in biology (for those with a major in chemistry, physics, or earth sciences) as follows. BIO 121, 122, 200, and 8 credits in BIO at the 300- or 400-level. In addition, SCI 416, 417, and 419; MATH 125 and CHEM 161 and 162 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 GENERAL SCIENCE WITH SPECIALIZATION IN BIOLOGY, BS (Certifiable for elementary education)

39–42 credits. For course listing, see major in general science, page 71.

For Certification in Elementary Education, Complementary Subject Matter Area in Biology:

18 credits, as follows: BIO 121, 122, 200; 6 credits from BIO 100, 101, 120, 132/133, 150, 322, 326, 327, 421, and any 300- or 400-level biology course; at least 3 credits must be at the 300-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 GENERAL SCIENCE WITH SPECIALIZATION IN ENVIRONMENTAL INTERPRETATION, BS

53–57 credits. For course listing, see major in general science, page 71.

MINOR IN BIOLOGY (Non-Teaching)

20 credits in biology, including BIO 121, 122, 200, and 8 credits of BIO electives at the 300- or 400-level.

MINOR IN GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog.

CHEMISTRY AND BIOCHEMISTRY

Faculty

G. A. Crundwell, *Chair*; J. V. Arena, G. A. Brown-Wright, T. R. Burkholder, N. M. Glagovich, Z. He, C. A. Jones, S. P. Watton, B. L. Westcott, Jr.; *Staff*: L.-L. Clancy Kelley, Science Technical Specialist (*Dept. phone 860-832-2675*)

Department Overview

The Department of Chemistry and Biochemistry is committed to excellence in

undergraduate instruction and to counseling students to help reach their personal and professional goals. The faculty have a variety of research interests and encourage student involvement in research projects. The department has been approved by the American Chemical Society (ACS) Committee on Professional Training.

The Department of Chemistry and Biochemistry provides undergraduate and graduate courses in the five major areas of chemistry (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry). The department offers the following BS degrees: Chemistry, certified by the American Chemical Society; an interdisciplinary degree in biochemistry (administered jointly with the Department of Biomolecular Sciences); and a degree in chemistry certifiable for secondary teaching.

The department facilities are located in Copernicus Hall and include five instructional laboratories, three research laboratories, and two major instrument rooms. All research and many teaching laboratories are equipped with networked computers. Four large computer facilities are available for chemistry majors; all are equipped with state-of-the-art chemistry software packages, including chemical drawing and molecular modeling software.

Chemistry students are introduced to the major research instruments typically found in academic and industrial laboratories, including gas chromatograph/mass spectrometer, Fourier transform nuclear magnetic resonance spectrometer; two Fourier transform infrared spectrophotometers; two UV/visible spectrophotometers; three high-performance liquid chromatographs; an atomic absorption spectrophotometer; a spectrofluorometer; an electrochemical analyzer; a petrographic microscope; three stand-alone gas chromatographs; a polarimeter; a single crystal x-ray diffractometer capable of powder, fiber, and low temperature data collection; and additional instrumentation. For more information, interested students should visit the department's website at www.chemistry.ccsu.edu or contact the department's secretary, Catherine Olson-Garuti, at 860-832-2675.

Programs

MAJOR IN CHEMISTRY, BS

(Accredited by the American Chemical Society)

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 161, 162, 163, 164, 210, 211, 212, 213, 301, 316, 321, 322, 323, 354, 402, 432, 455, 460, 461, and 462. In addition 16 credits of related requirements including: PHYS 125 and 126, and MATH 152 and 221 are also required. The student must also complete one additional course from the following approved list: MATH 218, MATH 222, MATH 226, MATH 228 or CS 151.

A minor is not required.

MAJOR IN BIOCHEMISTRY, BS

The BS program in biochemistry provides a strong foundation in both chemistry and molecular biology and is based on faculty, facilities, and research resources in both the Department of Chemistry and Biochemistry and the Department of Biomolecular Sciences. In addition to in-class laboratory instruction, this interdisciplinary program emphasizes independent student research carried out under the guidance of a faculty member from either department. This program is designed to prepare students for careers or advanced study in biochemistry, molecular biology, or health-related fields. For more information, refer to page 111 in this catalog.

MAJOR IN CHEMISTRY, BS (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.

34 credits in chemistry, as follows: CHEM 161, 162, 163, 164, 210, 211, 212, 213, 301, 321, 322, 323, 402, and 460. In addition, students must take BIO 121 or BMS 102 and 190; PHYS 125 and 126; SCI 420; MATH 152 and 221; and 3 credits 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 (Non-Teaching)

21 credits in chemistry, including CHEM 161, 162, 163, 164, 210, 211, 212, 213,

301, and one chemistry elective selected from courses numbered 300 or above.

MINOR IN CHEMISTRY (Certifiable for secondary teaching)

20 credits in chemistry if the student majors in biology, biomolecular sciences, physics, or earth science, including CHEM 161, 162, 163, 164, 210, 211, 212, 213, and 301. In addition, students must take PHYS 121, 122; BIO 121 or BMS 102 and 190; 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 Department of Chemistry and Biochemistry.

COMMUNICATION

Faculty

S. Mendez-Mendez, *Chair*; J. C. DelAma, R. M. Fischbach, G. Fitzgerald, Y. Ju, A. Moemeka, C. Pudlinski, K. Ritzenhoff, B. Sevitch, J. Teitler, C. B. Tyson, C. White (*Dept. phone 860-832-2690*)

Department Overview

The Department of Communication offers courses leading to the BA degree that 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.

Programs

MAJOR IN COMMUNICATION, BA

39 credits in the department and related courses, including 12 credits of departmental electives, 18 credits within an emphasis area (as noted below) and 9 credits of core requirements: COMM 140, 240, and 301 or 302. 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.

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:

- broadcast journalism (for students interested in careers in radio, television, or film);
- media studies (for students who want to gain a better understanding of the systems and institutions distributing mediated information in society);
- 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); and
- organizational communication (for students interested in pursuing consulting or in serving as managers for private and public institutions). In addition to these educational and occupational opportunities, a student might choose to pursue directions which could lead to an advanced degree in communication.

In addition to the 9 credit core, each track has the following selected requirements:

Broadcast Journalism

Required courses (12 credits): COMM 230, 305, 330, and 336 (or 338).

Electives: 18 credits, of which at least 6 credits must be from a list of selected broadcast journalism courses.

Media Studies

Required courses (12 credits): COMM 230, 305, 330, and 336. Electives: 18 credits, of which at least 6 credits must be from a list of selected media studies courses.

Public Relations/Promotions

Required courses (12 credits): COMM 215, 230, 234, 443. Electives: 18 credits, of which at least 6 credits must be from a list of selected public relations courses).

Organizational Communication

Required courses (12 credits): COMM 215, 230, 253, 453. Electives: 18 credits, of which at least 6 credits must be from a list of selected organizational communication courses.

Students should obtain a Curriculum Guide Sheet from the Department of Communication to determine the appropriate departmental electives for their emphasis area.

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. An additional requirement is that the students must complete three required communication core courses at CCSU: COMM 140, COMM 240, and either COMM 301 or COMM 302. *A minimum GPA of 2.50 must be achieved in these three 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 300- or 400-level communication courses (except for COMM 301 and/or 302 and/or 303 and 330) *until they have been admitted to the major.* Pre-communication students are allowed to take 200-level courses. 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 6 credits of related coursework outside of the major that are 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

Faculty

B. Kjell, *Chair*; F. Abdollahzadeh, J. M. Calvert, S. Kurkovsky, Z. Markov, B. O'Connell, I. Pevac, N. Zlatareva (*Dept. phone 860-832-2710*)

Department Overview

The Department of Computer Science offers an honors and an alternative program of study leading to a BS degree in computer science. 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 University's computer science honors program is the first in the state to receive CAC/ABET accreditation.

All computer science 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, computer science 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.

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.

Programs

MAJOR IN COMPUTER SCIENCE, BS (HONORS) (Non-Teaching; CAC/ABET-accredited)

64 credits. Core (18 credits): CS 151, 152, 153, 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): Additional courses to total 4 credits selected from advanced directed electives above or from CS 290, 300, 301, 398, 407, 425, 491, 492, 495, 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 161, 162, 163, and 164 or ESCI 121 and 122, or PHYS 125 and 126. Majors must also take PHIL 245 and an additional 6 credits in science. No minor is required for this major.

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, BS (ALTERNATIVE) (Non-Teaching)

38 credits as follows: 30 credits of computer science courses, including CS 151, 152, 153, 253 and 254, and 15 elective credits selected in consultation with an advisor. No other computer science 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, which is required for this major.

MINOR IN COMPUTER SCIENCE

18 credits as follows: CS 151, 152, 153, 253 and 6 credits of computer science elec-

tives which are applicable to the BS degree in computer science.

CRIMINOLOGY AND CRIMINAL JUSTICE

Faculty

S. Cox, *Chair*; K. Bantley, S. Costanza, R. Fernandez, J. Hedlund, D. Mitchell, S. Ratansi, R. Simmons, R. Tafrate (*Dept. phone: 860-832-3005*)

Department Overview

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.

Programs

MAJOR IN CRIMINOLOGY, BA
40 credits as follows: CRM 101, CRM 110, CRM 230, CRM 231, CRM 238, 3 credits of a 200-level elective, CRM 300, CRM 322, one elective in CRM 360 to CRM 370 range, CRM 435, 12 credits of 300- or 400-level electives (6 credits of which must be at the 400 level). Also, students must take PHIL 144 in Skill Area I and STAT 104 or STAT 200 or STAT 215 in Skill Area I.

MINOR IN CRIMINAL JUSTICE

18 credits as follows: CRM 110, 230, 231, 238, 300, and one elective.

DESIGN (GRAPHIC/INFORMATION)

Faculty

S. G. Vial, *Chair*; J. Calvert, N. Prokhorov, E. Thornton, B. Tyson, W. Wang (*Dept. phone 860-832-2557*)

Department Overview

The BA degree in Graphic/Information Design provides professional studies in the areas of graphic design, website design, interactive multimedia design, information design and digital and 3-D 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, 3-D imaging, website 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:

- Design Internship experience with graphic design, advertising, publishing, website or multimedia design companies;
- Central Design, student operated full service graphic design studio; and
- 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 website design houses, as well as multimedia and 3-D/animation studios.

Program

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.

Acceptance into the University and participation in the pre-graphic/information design program does not guarantee acceptance into the graphic/information design major. Acceptance into the GID major is competitive and is limited by the number of students who can be accommodated.

Students seeking full admission to the BA in graphic information design degree program must meet the following qualifications:

- complete 9 credits at CCSU;

- overall GPA of 2.50 strongly recommended. Student must be in good academic standing; and
- a score of 85 or better on the comprehensive assessment administered in DES 122 Fundamentals of Graphic/Information Design. DES 122 may be repeated only with the permission of the department chair.

These criteria will apply to students admitted to the University in spring 2004 or later and students who change their major to Pre-GID in spring 2004 or later.

Note: Students enrolled in the following courses will be assessed a \$65 design lab fee: DES 222, 225, 322, 325, 326, 425, 436, 438, 439, 465, 498, 499, 503, 504, 597, 598. Contact the department for additional information.

Note: Only students who have been admitted to the major may request transferred DES credit be substituted for "majors only" course work. Equivalency will be determined by individual course portfolio review.

MAJOR IN GRAPHIC/INFORMATION DESIGN, BA

36 credits as follows: DES 222, 225, 322, 325, 326, 419, 425, 436, 438, 499; MKT 306; CS 495. Additionally, ART 110, 130, 224; COMM 230; MKT 295 are required.

Note: Students must complete a standard minor or 18 credits of major-related courses as approved by advisor. Students are limited to 6 credits of design-designated coursework per semester without approval of advisor and department chair.

ECONOMICS

Faculty

K. T. Pae, *Chair*; P. L. Altieri, M. Charkiewicz, R. R. Daigle, K. H. Kim, C. Liard-Muriente, J. C. Loughlin (*Dept. phone 860-832-2725*)

Programs

MAJOR IN ECONOMICS, BA

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, BA, 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 Department 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 BA 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

Faculty

G. Gigliotti, *Chair*; S. Barnett, B. Barr, C. Barrington, A. Cannella, D. Cappella, M. Ciscel, S. Cohen, M. Collins, R. Dowling, C. Doyle, R. Dunne, B. Folker, J. Geller, S. N. Gilmore, H. Hartwig, T. Hazuka, J. A. Heitner, B. A. Johnson, J. Jones, P. Karpuk, E. Leonidas, V. B. Martin, M. Mentzer, M. A. Nunn, S. D. Ostrowski, L. Petit, A. Pozorski, R. Schipke, R. Shankar, K. Sugg, L. Zidani-Eroglu (*Dept. phone 860-832-2740*)

Programs

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

MAJOR IN ENGLISH, BA

42 credits in English, as follows: ENG 298; ENG 205, 210, and either 203 or 204; one additional course from among ENG 203, 204, 206, or 211; and one course from the following: LING 200, 230, 400, 430, 431.

In addition, 24 credits on the 300–400 level* as follows: three courses (9 credits) in British literature, at least one in a period preceding 1798 and at least one in a period following 1798; two courses (6 credits) in American literature, one in a period preceding 1865 and one in a period following 1865; one course (3 credits) in world literature; and two courses (6 credits) of 300–400-level English literature or film electives.

A minor is required for this major.

*There is one exception to the statement that the remaining credits must be on the 300–400 level. ENG 220 may be taken as fulfillment of the appropriate period or elective requirement. All studies courses (ENG 448, 458, 449, and 488) may be taken twice under different topics. Further substitutions within area requirements are permitted only with prior approval of the advisor and the department chair. Writing courses cannot be counted as electives in the major.

MAJOR IN ENGLISH, BS (Certifiable for secondary education)

39 credits in English, as follows: ENG 298; ENG 203 or 204; ENG 205; ENG 210; one additional 200-level survey chosen from among ENG 203, 204, 206 or 211; ENG 402; ENG 406; ENG 449; ENG 486 or another appropriate 300–400 level international media and literature course; ENG 492; ENG 220 or 461 or 462; one additional 300–400-level British literature course;* one additional 300–400-level American literature course.

LING 200 must be taken to fulfill Study Area III.

Professional Education courses: ENG 420 (to be taken concurrently with EDSC 425) and ENG 435 (to be taken concurrently with EDSC 435) counted toward Professional Education. Also, SPED 315, EDTE 316, EDSC 425, EDF 415, RDG 440, EDSC 435 are required for certification.

A minor is required for this major.

*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 upper division requirement in British literature. All studies courses (ENG 448, 458, 449, and 488) may be taken twice under different topics.) Further substitutions within area requirements are permitted only with prior approval of the advisor and the department chair.

MAJOR IN ENGLISH, BS (Certifiable for 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 and 401
Creative: two from ENG 371 or 372, 373 or 374, 376, 377
Journalism: ENG 235 and one of the following: 236, 380, 381, or 418.
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.

No minor is required for this major.

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.

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

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 WRITING FOR TEACHERS

(for secondary education English majors only)
Students are required to take ENG 404, 405, 406, and 9 additional credits from the creative writing and/or journalism minors: ENG 235, 236, 370, 371, 372, 373, 374, 375, 376, 377, 378, 380, 381, 382, 412, 416, 418, 484, 485, 494, 495. (Note: All creative writing and journalism courses must be taken in the prescribed sequences of those programs.)

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 9 credits from 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

Faculty

X. Shen, *Chair*; R. W. Benfield, C. Button, D. Dornan, J. E. Harmon, P. A. K. Kyem, C. Pope, T. Rickard, B. J. Sommers, D. Truly (*Dept. phone 860-832-2785*)

Department Overview

The Department of Geography 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.

Programs

MAJOR IN GEOGRAPHY, BA OR BS

39 credits in geography, as follows:

Environmental: GEOG 110, 130; 9 credits from GEOG 270, 272, 275, 374; 9 credits (three at the 300 or 400 level) from GEOG 256, 266, 276, 378, 466, 476, 478, 479; 12 credits from GEOG 430, 433, 445, 472, and 473; 3 credits of geography electives.

Geographic Information Science: GEOG 110 or 120; GEOG 130, 378, 430; 6 credits from GEOG 256, 266, 276; 9 credits from GEOG 442, 466, 476, 478, 479, ETC 458; 12 credits of geography electives, of which at least 6 must be at the 300 or 400 level.

Tourism: GEOG 110, 120, 130, 430; 15 credits from GEOG 290, 291, 450, 451, 453, 454, 455; 3 credits from GEOG 330, 434, 435, 436, 437, 446, 448, 452, 459; 3 credits from GEOG 270, 272, 275, 374, 472, 473; 3 credits of geography electives; 3 credits of THS electives.

General/Regional: GEOG 110 or 120; GEOG 130; 15 credits of geography electives (at least 9 at the 400-level); 3 credits from GEOG 270, 272, 275, 374, 433, 472, 473; 3 credits from GEOG 220, 223, 244, 290,

291, 451, 453, 454, 455, 470; 3 credits from GEOG 241, 439, 440, 441, 445, 450, 483; 3 credits from GEOG 256, 266, 276, 378, 442; 6 credits from GEOG 330, 434, 435, 436, 437, 446, 448, 452, 459. All elementary education students selecting this program will take GEOG 414 as one of their 3-credit electives in geography.

Acceptable substitutes for GEOG 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, BA
39 credits as follows: GEOG 110, 130, 241, 244, 420, 439, and 441; 12 credits from GEOG 433, 440, 445, 450, 473, or 483; 6 credits of geography electives. 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.

MINOR IN ENVIRONMENTAL GEOGRAPHY

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

MINOR IN GEOGRAPHIC INFORMATION SCIENCES

18 credits in geography as follows: GEOG 130, 378, and 12 credits (at least 6 at the

300- or 400-level) from GEOG 256, 266, 276, 466, 476, 478, 479, ETC 458. For geography majors, 3 additional credits of electives are required. Geography majors in the geographic information sciences track may not choose this minor.

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.

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, BS (Certifiable in social studies)

54 credits distributed as follows:

- 18 credits in history: HIST 121 and 122; 6 credits in 300-level U.S. surveys; HIST 301; and 3 elective credits in non-western history;
- 18 credits in geography, as specified by the requirements for the minor in geography; and
- 18 credits in social science, chosen from the following courses: PS 104 and/or 110; ECON 200 and 201; GEOG 110 and/or 120; ANTH 140; SOC 110.

In addition, students must complete SSCI 415, SSCI 421, SPED 315, EDTE 316, EDT 315, RDG 440, EDF 415, EDSC 425, and EDSC 435, as well as PSY 236. No minor is required.

Courses taken for the required 18 credits in geography above cannot be counted toward the 18 credits in social science above.

All majors in social sciences must take ECON 200 and 201.

All majors in social sciences must take at least one class in each of the following disciplines: history, geography, economics, anthropology, sociology, and political science.

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.

For Certification in Elementary Education, Complementary Subject Matter Area in Geography:

Complements primary subject matter area in English at the elementary level. 18 credits, as follows: GEOG 120, 220, 330; one of GEOG 272, 275, 374, or 433; and 6 credits in geography electives (at least 3 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 2 geography electives. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

HISTORY

Faculty

G. Sunshine, *Chair*; J. Bergman, M. B. Biskupski, G. T. Emeagwali, L. Glaser, B. Greenfield, K. Hermes, M. Jones, E. Kapetanopoulos, M. Mahony, N. H. Mezvinsky, H. Munro Prescott, J. Tully, M. Warshauer, L. Williams, R. Wolff (*Dept. phone 860-832-2800*)

Programs

MAJOR IN HISTORY, BA

39 credits in history. 12 credits must include: 6 credits at the 100 or 200 level; HIST 301 (taken prior to the first 400-level history course); HIST 490 (taken after 24 credits of history courses, including HIST 301 and 6 credits of history courses at the 400-level). Of the remaining 27 credits, 6 credits must be in a non-Western history course above the 100-level, 6 credits must be in European history above the 100-level, and 6 credits must be in American history above the 100-level. Finally, of the major's 39 credits, 12 credits must be completed in 400-level history courses.

MAJOR IN HISTORY, BS (Certifiable for secondary teaching of history and social studies)

57 credits as follows:

- 45 credits in history. 24 credits must include: HIST 121, 122, 301 (taken prior to the first 400-level history course); 12 credits of 300-level U.S. history surveys; HIST 490 (taken after 24 credits of history courses, including HIST 301 and 6 credits of history courses at the 400-level). Of the remaining 21 credits, 6 credits must be in European history above the 100 level, and 6 credits of non-Western history must be taken above the 100 level. (Please note that 3 of the 6 credits must appear on the State-approved non-Western history course list.) Finally, of the major's 45 credits, 12 credits must be completed in 400-level history courses; and
- 12 credits in social science consisting of PS 104 or 110; ECON 200 and 201; SOC 110.

Related requirements: ANTH 140 and GEOG 110 or 120.

For additional course requirements in education, consult with the School of Education and Professional Studies.

No minor is required of students in this major.

MAJOR IN HISTORY, BS (Certifiable for elementary education)

39 credits in history. 21 credits must include: HIST 121, 122, 301 (taken prior to the first 400-level history course); 9 credits of 300-level U.S. history surveys; HIST 490 (taken after 24 credits of history courses, including HIST 301 and 6 credits of history courses at the 400-level). Of the remaining 21 credits, 6 credits must be in European history above the 100-level, and 6 credits of non-Western history must be taken above the 100-level. (Please note that 3 of the 6 credits must appear on the State-approved non-Western history course list.) Finally, of the major's 39 credits, 12 credits must be completed in 400-level history courses. For additional course requirements in education, consult with the School of Education and Professional Studies.

MINOR IN HISTORY

18 credits of history, including HIST 301 and 6 additional credits at the 300 level and above.

For Certification in Elementary Education, Primary Subject Matter Area in History:

24 credits, as follows: HIST 121 and 122; HIST 301; 9 credits of 300-level U.S. history courses; 6 credits of non-U.S. history above the 100 level. Please consult with the

School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

MATHEMATICAL SCIENCES

Faculty

T. V. Craine, *Chair*; F. Bensics, R. Bilisoly, N. Castaneda, Y. Chen, R. Crouse, D. Dzuida, I. Gotchev, S. L. Gould, P. Halloran, C. Jin, S. Jones, R. S. Kalder, D. T. Larose, F. Latour, S. Lesik, E. Makover, M. Matsushita, J. McGowan, A. Miller, D. S. Miller, M. Mitchell, N. Padma, O. Perdomo, L. Recoder-Núñez, T. Roman, K. Saha, C. D. Smith, C. Waiveris (*Dept. phone 860-832-2835*)

Department Overview

The Mathematical Sciences Department has 30 full-time faculty members with expertise in mathematics, mathematics education, developmental mathematics, actuarial science, statistics, data mining, and mathematical physics. Our programs prepare students for teaching, business, industry, and research. In addition, we provide students in the schools of Technology, Business, and Educational and Professional Studies, as well as in other departments within the School of Arts and Sciences, with the mathematics and statistics courses needed for success in their fields.

Programs

MAJOR IN MATHEMATICS, BA

38 credits in mathematics and related courses, including MATH 152, 218, 221, 222, 228, 366, 377, and 450. The remaining 6 credits may be selected from MATH 250, 300, 323, 355, 398, 421, 440, 455, 468, 469, 470, 477, 491; STAT 315, 416, 425, 455, 456, 465, 476; ACTL 335, 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, BA

58 credits in mathematics and related courses as follows.

Core (40 credits): MATH 152, 218, 221, 222, and 228; STAT 315, 416, and 425; ACTL 335, 465, and 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 460; FIN 295, 320, 410, 420; 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 STATISTICS, BA

58 credits in mathematics, statistics, and related courses, including MATH 152, 218, 221, 222, 228; MATH 366 or 377; STAT 215, 315, 416; STAT 216 or 453; 2 courses chosen from STAT 425, 455, 456, 465, 476; ACTL 335, 465, 466, 481, and MATH 470. The remaining 16 credits may be selected from the courses listed above or MATH 300, 491; CS 151 (strongly recommended), 152, 253, 473; BIO 405; ECON 460, 485; GEOG 476; PSY 222, 451.

No minor is required for students choosing this major.

MAJOR IN MATHEMATICS, BS (Certifiable for secondary teaching)

48 credits in mathematics as follows: MATH 120, 152, 211, 218, 220, 221, 228, 313, 320, 323, 327, 328, 366, 377; STAT 314; 5 additional credits from MATH 222, 250, 311, 344, 355, 411, 421, 440, 468, 469, 470, 477, 491, STAT 315, 416, 453, 455, 456, 465. In addition, the student is required to take CHEM 161, 162, 163, and 164 or PHYS 125 and 126 and CS 151 or 213.

Upon acceptance into the Professional Program in teacher education students are required to complete a 30-credit program consisting of SPED 315, EDTE 316, RDG 440, EDF 415, EDSC 425, and MATH 413 (taken concurrently), and EDSC 435 and MATH 426 (taken concurrently).

No minor is required for students with this major.

MAJOR IN MATHEMATICS, BS (Certifiable for elementary teaching)

33 credits as follows:

Core:

21–22 credits from MATH 113, 213, 305, 306, 409; STAT 215; and MATH 125 or 152; and

Directed electives:

11–12 credits from MATH 110, 115, 119, 120, 121, 218, 221, 307, 344, 411, 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)

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)

20 credits in mathematics, as follows: MATH 152, 221, 222, and two courses selected from MATH 218, 226, 228, 250, 355, 366, 377.

MINOR IN STATISTICS

21 credits, including STAT 215, 216, CS 151; 3 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, 451.

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

For Certification in Elementary 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

Faculty

L. Uribe, *Chair*; L. Auld, G.M. Caliendo, L. Casas, E. Force, A. García-Lozada, P. Lapuerta, C. S. Lien, G. Mejía, A. Morales, M. Passaro, C. Pesca, S. Tomoda (*Dept. phone 860-832-2875*)

Department Overview

The Modern Languages Department recognizes that the world in which we live and work is global, interdependent, dynamic, and pluralistic. We understand that communication involves the cultural, linguistic, and social dimensions of language. Our overall goal is to teach students to communicate beyond their native language in order to participate effectively in that world. To achieve these goals, instructors employ oral proficiency strategies which promote correct oral use of the language. Writing and reading skills receive greater emphasis as the level of course work intensifies.

The Modern Languages Department offers a wide variety of language, culture, and literature courses which not only provide students with an aesthetic appreciation of the representative languages but also give them a better understanding of self, of other cultures, and of the complexities of human nature.

The Modern Languages Department assures the quality of its programs with a faculty whose deep commitment to teaching and research is matched by their linguistic expertise and knowledge of their discipline. As a vital part of CCSU's academic program, the Modern Languages Department is proud of its dedication to language learning and international studies.

Programs**MAJOR IN FRENCH, GERMAN, ITALIAN, BA**

30 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 305 (FR 302), 315, 316; FR 301 or GER 304 or ITAL 304; and 6 credits of directed electives.

MAJOR IN SPANISH, BA

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, BS (Certifiable for secondary teaching)

36 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 305 (FR 302), 315, 316, 335, 336; FR 301 or GER 304 or ITAL 304; and 6 credits of directed electives. In addition, students must take EDTE 316, EDF 415, SPED 315, EDSC 425, EDSC 435, ML 428, ML 429, ML 440, ML 490 or LING 300, EDT 315, and RDG 440. For students with advanced preparation, appropriate substitutions will be made. No minor required.

MAJOR IN SPANISH, BS (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 300, 304 or 305, 315, 316, 335, 336, 375 or 376; and 3 credits of directed electives. In addition, students must take EDTE 316, EDF 415, SPED 315, EDSC 425, EDSC 435, ML 428, ML 429, ML 440, ML 490 or LING 300, 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 354; 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 German and Italian by appointment. Testing for Spanish or French proficiency is done, by appointment, in The Learning Center, located in Copernicus. 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

Faculty

D. D'Addio, *Chair*; B. Kershner, C. Knox, L. Laurent, C. Menoche, C. Parr, P. Perry, J. Ribchinsky, T. Seddon (*Dept. phone 860-832-2912; fax: 860-832-2902*)

Department Overview

The Department of Music offers a BS in music education and a BA in music with specializations in performance, jazz studies, or theory/composition. In addition to the undergraduate degree offerings, the department offers courses in the General Education program, focusing on western art music, music theory, jazz history, world music, and music technology. The department is accredited by the National Association of Schools of Music.

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

Programs

MAJOR IN MUSIC, BA

60 credits as follows:

Core (25 credits):

MUS 114, 115, 116, 121, 122, 211, 215, 216, 221, 222, 235, 236, 335.

Specialization (35 credits): either

- Performance: MUS 178, 278, 378, 478 (14 credits); MUS 140 or 141 or 142 or 143 (10 credits); MUS 367, 380 or 401, 400, 404;
- Theory and Composition: MUS 177 or 178, 278, 378, 478 (14 credits); MUS 141 or 142 or 143 (2–6 credits), MUS 140 (0–4 credits); MUS 295, 367, 380, 390, 395 or 405, 400;
- Jazz Studies: MUS 178, 278, 378, 478 (14 credits); MUS 140 (8 credits); MUS 213, 273, 274, 380, 400; or
- General Studies: MUS 250 and 251 or pass piano proficiency exam (0–4 credits); MUS 178, 278, 378, 478 (12 credits); MUS 367 (2 credits); MUS 141 or 142 or 143 (8 credits); electives (9–13 credits).

MAJOR IN MUSIC EDUCATION, BS (Certifiable for PK–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, 311, 315 or 316, MUS 402, EDSC 375, EDF 415, EDSC 420, 421; EDTE 314 and SPED 315.

Students in this program must take the following as part of their General Education requirements: HIST 161 or 162 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.

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 (BA and BS 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:

- playing major and harmonic minor scales (up to 4 sharps and flats), two octaves, hands together;
- playing three intermediate-level pieces from the recommended list, including a chorale and a memorized piece;
- harmonizing a simple melody;
- transposing the same melody up or down a major/minor second; and
- sight-reading a simple piano piece and an accompaniment.

MINOR IN MUSIC

Students planning to minor in music must consult the department chair for advisement.

18 credits in music, as follows:

Area I: 9 credits from MUS 109, 110, 111, 112, 115, 116, 121, 122, 221
 Area II: 4–5 credits from MUS 114, 250, 251, 264, 273, 274, 350, 351, 380
 Area III: 4–5 credits from MUS 140, 141, 142, 143, 177

PHILOSOPHY

Faculty

E. Godway, *Chair*; D. Adams, F. Best, D. Blitz, P. English, A. P. Iannone, J. McKeon, J. VanRiper (*Dept. phone 860-832-2915*).
Cross appointed: B. O'Connell (Computer Science)

Department Overview

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: History of Western Philosophy; African, African-American, and Asian Philosophy; Logic and Philosophy of Science; Continental Philosophy; Theoretical and Practical Ethics; and 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, peace studies, and 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.

Programs

MAJOR IN PHILOSOPHY, BA

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) (24 credits):

- History of Philosophy: PHIL 230, 232, 330, 332, 368

- African, African-American, and Asian Philosophy: AFAM 110, PHIL 250, 260, 275, 360, 376
- Logic and Philosophy of Science: PHIL 135, 235, 241, 242, 245, 320, 335, 368
- Continental Philosophy: PHIL 222, 248, 332, 366, 368
- Theoretical and Practical Ethics: PHIL 240, 241, 242, 346, 349; NRSE 246
- 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 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 one of the specializations for philosophy majors (at least 3 credits at 300-level or higher).

PHYSICS AND EARTH SCIENCES

Faculty

A. A. Antar, *Chair*; M. Bednarski, M. Evans, K. Larsen, P. LeMaire, S. B. Newman, J. Piatek, N. Sadanand, N. C. P. Sharma, L. Tongson, M. Wizevich (*Dept. phone 860-832-2930*)

Department Overview

Located in Copernicus Hall, the facilities of the Department of Physics and Earth Sciences 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, ESCI 110, 111, 117, or 118.

The department plans to offer a BS degree in digital and optical science upon completion of the approval processes for the Connecticut Department of Higher Education and the Board of Governors. Once approved, this program will be listed on the department website at www.physics.ccsu.edu and on the undergraduate application. Students interested in pursuing this degree should contact the department.

Programs

MAJOR IN PHYSICS, BS (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 161, 162, 163, and 164, 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, BS (non-teaching)

30 credits in the earth sciences are required, including ESCI 121, 122, 129, 178 or 179, and 460. The remaining 13 credits of earth science shall be elected from the following: ESCI 221, 223, 278, 321, 330, 335, 424, 431, 442, 450, 462, ISCI 118, or GEOG 374.

In addition, CHEM 161, 162, 163, 164; PHYS 121, 122; and MATH 152, 221 are required.

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

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

MAJOR IN PHYSICS, BS (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 161, 162, 163, 164; 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 161, 162, 163, 164, MATH 152, 221, 222, and SCI 417.

MAJOR IN EARTH SCIENCES, BS (Certifiable for secondary teaching)
30 credits in earth sciences, including ESCI 121, 122, 129, 178 or 179, 335, and other electives as approved by faculty advisor. In addition, the student must take CHEM 161, 162, 163, 164; PHYS 121, 122; BIO 121, 122; EDTE 316; 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, 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.

MAJOR IN GENERAL SCIENCE WITH SPECIALIZATION IN EARTH SCIENCES, BS (Certifiable for elementary education)
39–42 credits. For course listing, see major in general science, page 71.

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
21 credits in earth sciences and related fields, including ESCI 129, 431, 461, and 462. The remaining 7 credits will be chosen from ESCI 335, 442, GEOG 374. In addition, the student must take MATH 152, 221.

MINOR IN GEOLOGY
18 credits in earth sciences, including ESCI 121, 122, 221, 321, and one course from ESCI 223, 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 other electives after consultation with an earth sciences department advisor. In addition, the student must take MATH 152, 221, and PHYS 125, 126.

For Certification in Elementary Education, Complementary Subject Matter Area in Earth Sciences:
18–19 credits, as follows: ESCI 121, 129, 178 as core courses. A minimum of 6 credits from the following electives: ESCI 122 or 179 or 278 or 321 or 424. Other electives as approved by advisor. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

POLITICAL SCIENCE

Faculty
P. Petterson, *Chair*; W. Brown Foster, J. Duquette, G. El-Eid, A. C. Moran, A. G. Smith (*Dept. phone 860-832-2967*)

Programs
MAJOR IN POLITICAL SCIENCE, BA
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. Six credits from the fields of history, sociology, psychology, economics, geography, mathematics, and statistics may be applied to the 36-credit political science requirement, when approved in advance by the departmental chair.

MAJOR IN POLITICAL SCIENCE WITH SPECIALIZATION IN PUBLIC ADMINISTRATION, BA
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 sci-

ence 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.

PSYCHOLOGY

Faculty
B. Waite, *Chair*; C. Andreoletti, C. Shaw Austad, L. Bowman, P. Chu, J. Conway, J. DiPlacido, F. Donis, D. Engwall, C. Fallahi, M. Fallon, C. A. Ford, M. B. Goldstein, S. W. Horowitz, L. Levine, C. C. Mate-Kole, M. Mealy, L. Perdue, M. Salinas, J. Sikorski, R. Wood (*Dept. phone 860-832-3100*)

Department Overview
The Department of Psychology offers courses leading to the BA 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.

Programs

MAJOR IN PSYCHOLOGY, BA

42 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 categories: 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 the Psychology Assessment test. The test will be administered by the department twice each semester; students may take the test only once.

A minor is required for this major.

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 GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog. Note: Psychology majors choosing to minor in gerontology cannot double-count major and minor requirements.

SCIENCE AND SCIENCE EDUCATION

Faculty

Interdepartmental Staff

Advisors — M. Bednarski, J. Jarrett

Programs

MAJOR IN GENERAL SCIENCE, BS

Specialization in General Science

(Certifiable for secondary teaching)

56–59 credits as follows:

1. Science and Mathematics Core (46 credits): BIO 121, 122; CHEM 161, 162, 163, and 164; ESCI 121, 129, 178 or 179; PHYS 121 and 122 or PHYS 125 and 126; 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, 335
 - Chemistry: CHEM 238 or 301, 210, 211, 212, 213
 - Biology: BIO 200, 6–8 credits in biology at 300- or 400-level

In addition, students must take EDTE 316; EDF 415; SPED 315; EDSC 425, 435; SCI 416, 417, 419; RDG 440.

Specialization in Physical Sciences

54 credits in science, including CHEM 161, 162, 163, 164; PHYS 125, 126; ESCI 121, 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.

Specialization in Environmental Interpretation

53–57 credits in the natural sciences, or in approved areas, including the following:

- BIO 121, 122, 200; STAT 104 or CS 113; ESCI 121;
- 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;
- Structured elective component: life sciences. Two courses from the following: BIO 120, 150, 315, 322, 326, 327, 405, 420,

421, 425, 444, 480, selected in consultation with an advisor; and

- 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, 422, 425; 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. Three credits of internship (SCI 453) are also required.

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

Specialization in Biology or Earth Sciences (Certifiable for elementary education)

39–42 credits. Core: 24–32 credits. Physics (6–8 credits): PHYS 111/113 or 121/122 or 125/126; chemistry (6–8 credits): CHEM 102, 111, or CHEM 161, 162, 163, and 164; biology (6–8 credits): BIO 111, 211, 132, or 121/122; earth science (6–8 credits): ESCI 111, ESCI 121, ESCI 129, or ESCI 178.

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 200 and BIO elective(s) at the 300 or 400 level selected in consultation with an advisor.

Earth Science — Requires ESCI 121, 129, and 178. ESCI electives (choose a minimum of 6 credits as needed to reach 39): ESCI 122, ESCI 179, ESCI 335, other electives as approved by advisor.

MINOR IN SCIENCE

24 credits as follows: 12 credits from BIO 121 (or BMS 102 and 103), CHEM 161 and 162, ESCI 121, or PHYS 121 (or 125), the remaining from BIO 122 (or BMS 201), CHEM 163 and 164, ESCI 178 or 179, and PHYS 122 (or 126). The student must take at least one course in each discipline (biology or biomolecular sciences, chemistry, physics, and earth sciences), and the 8 credits in the minor 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 161, 162, 163, and 164; PHYS 121 and 122; ESCI 121; and one of the following courses: BIO 318, CHEM 210 and 211 or PHYS 325. SCI 416, 417, and 419 are required.

SOCIAL SCIENCES

Faculty

Contact the chair of the Department of History (860-832-2800).

Program

MAJOR IN SOCIAL SCIENCES, BS
(Certifiable for secondary teaching)

54 credits as follows:

- 18 credits in history: HIST 121 and 122; 6 credits in 300-level U.S. surveys; HIST 301; 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; and
- 18 credits in social science, chosen from the following courses: PS 104 and/or 110; ECON 200 and 201; GEOG 110 and/or 120; ANTH 140; SOC 110.

Courses taken for the 18-credit in one social science discipline above cannot be counted toward the 18 credits in social science in the last bulleted item.

All majors in social sciences must take ECON 200 and 201.

All majors in social sciences must take at least one class in the following disciplines: history, geography, economics, anthropology, sociology, and political science.

In addition, students must complete SSCI 415, SSCI 421, SPED 315, EDTE 316, EDT 315, RDG 440, EDF 415, EDSC 425, and EDSC 435, as well as PSY 236.

No minor is required.

SOCIOLOGY

Faculty

S. Adair, *Chair*; B. Day, M. Erdmans, J. Greenebaum, E. Kaminski, B. Merenstein, J. R. Mitrano, J. O'Connor, A.F. Pearson, A. Van Wagenen (*Dept. Phone: 860-832-3135*)

Department Overview

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 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.

Programs

MAJOR IN SOCIOLOGY, BA

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, as well as 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 successfully complete 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'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.

MINOR IN GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog.

THEATRE

Faculty

L. B. Johnson, *Chair*; T. J. Callery, Jr., T. Delventhal, C. Fellows, K. Mooney, J. Perlstein, J. Strzemien (*Dept. phone 860-832-3150*)

Programs

MAJOR IN THEATRE, BFA

60–65 credits completed in one of the following programs. Note: A minor is not required with this major.

Acting. 60 credits as follows:

Core (48 credits): TH 101 (repeated 6 times), 111 or 121, 126, 135, 145, 246, 253, 275, 338, 347, 375 or 376, 483, 484; DAN 235, 236; and 3 credits selected from TH 447 or 456. 12 additional credits of theatre electives are also required.

Design and Technical Theatre. 65 credits as follows:

Core (52 credits): TH 111, 117, 121, 126, 211, 213, 217, 251, 253, 316, 318, 333, 375, 376; ART 130, 110; 6 credits from TH 481, 485, 486, 488, 491, 492, 493

Directed Electives (13 credits):

Chosen from other theatre courses or from courses in related fields in consultation with advisor.

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.

General Theatre/Educational Theatre (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.

General Theatre/Dance. 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, 157, 235, 236, 252, 257, 377, 480, and MUS 109.

General Theatre/Directing. 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.

Costume Design. 65 credits as follows:
Core (48 credits): TH 111, 115, 117, 121, 126, 211, 222, 253, 327, 332, 333, 334, 375, 376, 482; ART 130, 110

Directed Electives (17 credits): Chosen from other theatre courses or from courses in related field in consultation with advisor.

MAJOR IN THEATRE, BA
34 credits as follows:

Core: 22 credits including TH 111, 115, 117, 121, 135, 143, 253, and 3 credits from TH 375, 376, 489

Emphasis: 6 credits from one of the following categories

- Acting/Theatre Voice: TH 145, 338, 246, 347*
- Directing: TH 352, 488
- Design/Tech: TH 115 (3 credits max.), 213, 217, 316, 318
- Costuming/Makeup: TH 115, 126, 222, 327, 332, 482
- Dance/Movement: At least 2 credits from DAN 235, 236; at least 2 credits from DAN 151, 152, 157, 252, 257;

and 2 credits from the above
Dance/Movement courses or DAN 377

Electives: 6 credits of theatre electives

*In the emphasis and electives mentioned 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 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, 447, 456, 489, DAN 235.

MINOR IN DANCE

18 credits in dance and theatre, including DAN 151, 152, 157, 252, 257, 377, 480, TH 117, 121, 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 that 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 Biology, 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 communities 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 BA or BS (non-teaching) degree program offered by the School of Arts and Sciences. No residency credits at CCSU 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 BS 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 (860-832-2932; 860-832-2930).

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, and 448) may be credited toward the MPA. Non-matriculated students, who have completed the BA, 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.

Siamack Shojai, Dean
Sharon Braverman, Assistant Dean &
Academic Advising Director
Phone: 860-832-3205
Fax: 860-832-3219
Website: www.ccsu.edu/business

The School of Business offers programs leading to the Bachelor of Science degree in Business Administration.

Vision: The School of Business aspires to provide a high quality education for Connecticut's future business leaders through a student-centric focus, willing to challenge students with a global view of business; a quality business education curriculum that is rigorous, hold students to high standards, and provides the foundation for intellectual enrichment and life-long learning; a collegial and collaborative faculty, respected for the quality of its teaching and its relevant scholarship and being active in Connecticut's business community; and its reputation as an accredited business school, recognized within the University, the business community, and the profession for its exceptional graduates and value, and for measurably contributing to Connecticut's economic capabilities.

Mission: We provide the opportunity for an education in the field of business that is recognized by our stakeholders for its quality. The faculty, dedicated to teaching and informed by their scholarship, prepares 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 and the Business Major

PRE-MAJOR STATUS

Students may apply for admittance to the School of Business as part of their initial application for admission to the University. Such students will be in pre-major status until they are formally admitted to business major status.

BUSINESS MAJOR STATUS

The School of Business requires objective evidence that a student possesses the quantitative and verbal aptitude and the fundamental economics and accounting skills to move on to upper division business coursework and successfully complete his or her desired business degree program. Students are also expected to have a working knowledge of basic computer applications programs such as word processing and spreadsheet applications.

Students must apply and be formally admitted to business major status before they will be permitted to enroll in upper division business courses. ("Upper division" is defined as 300- and 400-level business courses.) Students must formally apply for business major status when they have completed (or are about to complete) the pre-major requirements, which consist of AC 211, 212; ECON 200, 201; ENG 110; MATH 123 or 125; STAT 200, 201.

Business major status will only be granted to students who have:

- achieved junior or senior standing;
- completed the pre-major requirements with a minimum cumulative grade point average of 2.50;
- attained a grade of C- or better in each of the pre-major requirements courses; and
- earned a minimum cumulative grade point average of 2.50 in all coursework at CCSU.

Students, who are:

- currently enrolled in pre-major requirements courses; and
- will complete the pre-major requirements by the close of the semester, will be granted "conditional" business major status so that they can register

for upper division business courses for the next semester, provided however, they currently meet the minimum grade and cumulative grade point average requirements in their completed coursework. If such students subsequently fail to successfully complete the pre-major requirements, their "conditional" business major status designation will be revoked, and they will be removed from upper-division business courses and denied access to such courses until they successfully complete the pre-major requirements.

Students accepted into business program status must maintain a minimum 2.50 cumulative grade point average in business coursework and in the University grade point average. A student whose grade point average falls below the required minimum 2.50 cumulative grade point average will be subject to dismissal from the School of Business.

Note that each department may set separate requirements for admission to (and completion of) a chosen business major, including higher minimum grade and cumulative grade point averages. Please check the specific requirements for each business major.

Further information and applications for admission for both pre-major status and business major status may be obtained in the assistant dean's office in Robert C. Vance Academic Center, Room 216, 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, application procedures, and cumulative grade point averages as CCSU students. Transfer credit for pre-major requirements courses, common business core courses, and chosen major courses will not be granted by the School of Business unless such courses were completed with grades of C- or better.

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 assistant 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 assistant 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.

Advising for Upper-Level Business Majors

Students are expected to satisfy all pre-major requirements in the freshman and sophomore years. After satisfying all pre-major requirements, applying for acceptance to business major status, and being granted business major status, a student should contact his or her major department to be assigned a faculty advisor within the department. Each semester, upper-level students meet with their faculty advisors to identify appropriate courses for their program of study.

Once a student has completed 90 credits, the student must have advance permission from the chair of the student's major department 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 the following:

- the General Education requirements, comprised of study and skill areas;
- the common business core requirements;
- the chosen major requirements; and
- the non-business elective requirements.

The courses satisfying these requirements must be taken at Central or transferred according to the regulations for transfer students. Students must receive a grade of C- or better in each common business core course and each chosen business major course. All transfer credit in these two areas must also have a grade of C- or better.

	Credits
General Education	47
Non-Business Elective	18
Common Business Core	27
Major Course Requirements (major requirements are listed under the appropriate departments)	30
Total Degree Requirements	122

General Education Requirements

General Education requirements are described elsewhere in this catalog; however, the General Education courses required specifically for business majors as part of the pre-major requirements are the following (all with a grade of C- or better):

Study Area II: ECON 200, 201
Skill Area I: ENG 110
Skill Area II: MATH 123 or 125,
STAT 200, 201

Business Degree Requirements

Students must complete:

- **COMMON BUSINESS CORE** (27 credits): AC 211, 212; FIN 295; LAW 250; MC 207; MGT 295, 480; MIS 201; MKT 295
- the common business core with a minimum cumulative grade point average of 2.50 in all coursework at CCSU (students must also receive a grade of C- or better in each of the common business core courses);
- the business major requirements (30 credits) with a minimum cumulative grade point average of 2.50 in all coursework at CCSU (students must also receive a grade of C- or better in each business major course taken); and
- the entire business degree program requirements (122 credits) with a minimum cumulative grade point average of 2.50 in all coursework at CCSU.

Note that each department may set separate requirements for admission to (and comple-

tion of) a chosen business major, including higher minimum grade and cumulative grade point averages. Please check the specific requirements for each business major.

Graduate Programs in Business

The School of Business offers the MS in business education and business education certifications. See the *Graduate Catalog* or the coordinator for business education for information on these programs.

Accounting

Faculty

J. Walo, *Chair*; C. Crespi, M. Durant, L. Grasso, P. Mihalek, A. Rich, M. Roxas, H. Shakun, J. Stoneback, P. Tilley, S. Tomczyk; D. Stewart, *Secretary* (Dept. phone 860-832-3220)

Department Overview

The accounting program prepares its graduates for professional careers in public, corporate, and governmental accounting and for advanced graduate study in accounting. The program provides the background necessary in areas of accounting such as financial reporting, auditing, taxation, cost management, budgeting, accounting information systems, and management advisory services.

The accounting program satisfies the business and accounting educational requirements of the Connecticut State Board of Accountancy for eligibility to take the Connecticut CPA examination. Please note, however, that in Connecticut, CPA certification requires 150 hours of university credit, which is more than the 122 credit hours required for a BS. Additional courses may be taken at either the undergraduate or graduate level. Also, 36 of the 150 credit hours must be in "AC" designated courses, and 30 credit hours must be in business and economics designated courses. The accounting program also satisfies the educational requirements for eligibility to become a certified management accountant or a certified internal auditor.

Program

Curriculum Requirements

Students must first successfully complete the School of Business pre-major requirements

before they can be admitted to the accounting major. Upon admission to the accounting major, students must complete the common business core of 27 credits plus an additional 30 credits of specific accounting course work as follows:

MAJOR IN ACCOUNTING, BS

Accounting Foundation

- AC 300 Foundations of Accounting: The Profession, Processes and Analysis
 AC 301 Cost Management Systems
 AC 312 Financial Reporting I
 AC 313 Financial Reporting II
 AC 340 Accounting Information Systems
 AC 401 Introduction to Income Taxation
 AC 445 Auditing

Accounting Tracks

Students complete their accounting program by selecting from the following accounting tracks:

General Accounting Track

(for undecided major)

Choose three directed electives from: AC 311, 402, 404, 407, 420, 430, 455, 490; LAW 400

Public Accounting Track

(CPA/tax orientation for careers as independent public accountants)

AC 402 Fundamentals of Corporate Taxation

LAW 400 Advanced Business Law

Choose one directed elective from: AC 311, 404, 407, 420, 430, 490

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

Choose two directed electives from: AC 311, 430, 455, 490; FIN 301; LAW 400

Business Education

(Post-baccalaureate degrees only)

Faculty

G. F. Claffey, *Coordinator* (Phone 860-832-2590)

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

Faculty

K. Czyrnik, *Chair*; Z. Bello, J. Farhat, L. Frank, P. Root, D. Sims (*Dept. phone 860-832-3260*)

Department Overview

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.

Program

MAJOR IN FINANCE, BS

Majors in finance must complete the 27-credit common business core (see column 2 on page 76) requirements plus the following 30 credits.

Finance Core		Credits
FIN 301	Intermediate Managerial Finance	3
FIN 310	Principles of Investments	3
FIN 320	Financial Markets and Institutions	3
Directed Finance Electives		12
Finance, Accounting, or Economics Electives		9
Finance 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 330	International Finance	3
FIN 400	Advanced Managerial Finance	3
FIN 410	Securities Analysis	3
FIN 411	Financial Statement Analysis	3
FIN 420	Bank Management	3
FIN 321	Insurance	3
FIN 422	Risk Management	3
FIN 425	Financial Derivatives	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

Directed Finance Electives Total 12

Finance, Accounting, or Economics Electives

Students must complete 9 credits of 300- or 400-level courses.

Finance, Accounting, or Economics Electives Total 9

Specialization in Banking (12 credits)

For students interested in preparing for careers in banking. Required courses include ECON 450, Money, Credit & Banking; FIN 411, Financial Statement Analysis; FIN 420, Bank Management; and FIN 330, International Finance, or FIN 425, Financial Derivatives.

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.

Specialization in Risk Management/Insurance (12 credits)

For students preparing for careers in the insurance industry. Required courses include FIN 321 Insurance, FIN 422, Risk Management, FIN 425 Financial Derivatives, and one finance elective.

International Business

Faculty

M. Mitchell, *Chair*; (Dept. phone 860-832-3275)

Department Overview

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 2 on page 76) requirements and the following 30 credits:

Program

MAJOR IN INTERNATIONAL BUSINESS, BS

International Business	Credits
MGT 321 International Management	3
MKT 321 International Marketing	3
FIN 330 International Finance	3
ECON 430 International Economics	3
International Business Functional Specialization	9
Business Electives	9
International Business 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 326; or MGT 305, 425, and 431)

Marketing (MKT 373, either MKT 305 or 413, and one of MKT 306, 307, 350, 390, 481)

Management Information Systems (MIS 315, 400, and 410)

International Business Functional Specializations 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 a faculty advisor in the student's major.

Business Electives Total 9

Management and Organization

Faculty

M. Mitchell, *Chair*; G. Baten, S. Cavaleri, D. S. Fearon, D. Harris, C. Labedz, L. Lee, D. J. Miller, S. Stookey, W. E. Tracey, Jr. (Dept. phone 860-832-3275)

Department Overview

The Department of Management and Organization 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.

Program

MAJOR IN MANAGEMENT, BS

Students in the management major must complete the 27-credit common business core (see column 2 on page 76) requirements and the following 30 credits:

General Management Core

Required in all specializations except Human Resource Management and Entrepreneurship.

	Credits
MGT 326 Business Organizational Behavior	3
MGT 345 Organizational Theory	3
MGT 348 Management Systems	3

MGT 448 Managing Strategy and Operations	3
General Management Core Total	12

Specialization in General Management

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.

Specialization Courses:

ENT 301 Entrepreneurship and New Venture Creation	3
MGT 305 Human Resource Management	3
MGT 321 International Management	3
MGT 390 Management Topics	3
MGT 403 Ethical and Social Issues for the Manager	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 471 Managing Knowledge for Business Performance	3
MGT 473 Organizing and Managing for Innovation	3
MGT 481 Management of Not-for-Profit Organizations	3
Specialization Courses Total	9

Note: MGT 295 must be completed with a C- or better before students can take upper-level management courses.

Business Electives

Students must select 9 credits of 300- or 400-level School of Business courses in consultation with a faculty advisor. These 9 credits must be completed after satisfying all course prerequisites for each course.

Business Electives Total	9
Major Total	30

Specialization in Human Resource Management

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.

Human Resource

Management Core:		Credits
MGT 305	Human Resource Management	3
MGT 326	Business Organizational Behavior	3
MGT 348	Management Systems	3
or		
MGT 345	Organizational Theory	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
MGT 462	International Human Resource Management	3

Specialization Courses Total 12

Business Electives

Students must select 9 credits of 300- or 400-level School of Business courses in consultation with a faculty advisor. These 9 credits must be completed after satisfying all course prerequisites for each course.

Business Electives Total 9

Major Total 30

Specialization in Entrepreneurship

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 2 on page 76) plus the following 30 credits. However, they may not take courses in the specialization beyond ENT 301 unless they have first met with a faculty advisor and developed a planned program.

Entrepreneurship

	Credits	
ENT 301	Entrepreneurship and New Venture Creation	3

ENT 305	Financing Entrepreneurial Ventures	3
ENT 320	Managing a Growing Business	3
ENT 499	Field Study in Entrepreneurship	3
	Directed Electives	9
	Business Electives	9
	Entrepreneurship Total	30

Directed 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 326	Business Organizational Behavior	3
MKT 305	Consumer Behavior	3
MKT 373	Marketing Research	3
MKT 390	Product Development and Management	3
MKT 481	Consultative Selling Techniques	3

Directed Business Electives Total 9

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business courses, to be determined in consultation with a faculty advisor.

Business Electives Total 9

Management Information Systems

Faculty

M. J. D'Onofrio, *Chair* (phone 860-832-3297); G. F. Claffey, M. Gendron, A. Jarmoszko, J. Lee-Partridge, L. Leong, O. Petkova, J. Snyder (*Dept. phone 860-832-3290*)

Department Overview

The management information systems (MIS) program prepares graduates for advanced graduate study and careers in organizations as information systems spe-

cialists 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.

Program

MAJOR IN MANAGEMENT INFORMATION SYSTEMS, BS

Students must complete the 27-credit common business core (see column 2 on page 76) requirements plus the following 30 credits:

Management Information

Systems Core

	Credits	
MIS 220	Contemporary Business Applications Development I	3
MIS 305	E-Business	3
MIS 315	Database Management Systems	3
MIS 361	Systems Analysis and Design for Business	3
MIS 400	Business Decision Analysis Using Knowledge Bases	3
MIS 410	Business-Driven Network Design	3
MIS 450	Enterprise Strategies and Transformations	3
MIS 462	Systems Implementation and Project Management	3
	Directed Electives (see below)	6
	Management Information Systems Core Total	30

Directed Management Information Systems Electives

The Management Information Systems (MIS) program requires completion of 6 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 312	Contemporary Business Applications Development II	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
Directed Management Information Systems Electives Total	6

No minor is required for this major.

Marketing

Faculty

J. Stoneback, *Chair*; J. Bonnici, R. A. DeCormier, H. Greene, A. Jackson, K. Koh, J. Lefebvre, N. Raajpoot, D. Scherban (*Dept. Phone 860-832-3260; e-mail: stoneback@ccsu.edu*)

Department Overview

The Marketing Department offers courses leading to a BS degree in business administration. Students choosing to major in marketing have the opportunity to custom-design their programs. Non-marketing students, interested in marketing, may select marketing courses that complement their major.

The Marketing Department's program provides a basic foundation in marketing skills, theory, and best practices, domestic and international. It prepares students for entry-level positions (e.g., sales, customer services, public relations, product management, market analyst), the opportunity to become a marketing professional, and continuing on to graduate study.

Marketing is a field that offers ambitious students rewarding career opportunities. In fact, about a third of all employees work in marketing-related activities.

The 33-credit program starts with a 12-credit marketing core followed by 12 credits of marketing electives and 9 credits of business electives. The later 9 credits can be marketing electives. Thus, by selecting an appropriate set of marketing courses, students can custom-design their marketing programs to best fit their personal projects, interests, and needs. A student's program can be tailored for preparation to enter the job market in areas such as advertising, communication, public relations, services marketing, customer relations management, business-to-business/sales, market research, retailing, new product/service development, direct marketing, and others.

The marketing faculty works closely with students who learn from experience performing work for real firms via internships, independent studies, and the marketing practicum. The faculty wants to prepare students to succeed in their careers.

Finally, the marketing faculty cares about teaching and students' learning. Both students and faculty engage in research and scholarship.

Program

MAJOR IN MARKETING, BS

Marketing Core (12 credits)		Credits
MKT 305	Consumer Behavior	3
MKT 373	Marketing Research	3
MKT 380	Market Data Analysis	3
MKT 450	Marketing Strategy and Plan	3

Directed Marketing Electives (12 credits)

The directed electives are selected with and approved by an advisor.

		Credits
MKT 306	Advertising and Promotion	3
MKT 307	Sales Administration	3
MKT 311	Retailing	3
MKT 321	International Marketing	3
MKT 339	Spatial Marketing	3
MKT 350	Internet Marketing and Channels	3
MKT 358	Relationship Marketing	3
MKT 359	Special Events Marketing	3
MKT 375	Services Marketing	3
MKT 390	Product Development and Management	3
MKT 413	Business-to-Business Marketing	3
MKT 415	Marketing Touristic Startups	3
MKT 439	Direct Marketing	3
MKT 444	Direct Marketing Analytics	3
MKT 470	Integrated Marketing Communication	3
MKT 480	Marketing for Non-Profit Organizations	3
MKT 481	Consultative Selling Techniques	3
MKT 494	Independent Study in Marketing	3
MKT 496	Practicum in Marketing	6
MKT 497	Marketing Internship	3
MKT 498	Marketing Seminar	3

Business Electives (9 credits)

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business, including marketing courses.

No minor is required for this major.

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 may 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, international business, 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 common business core (9 credits)

Three courses, identified by the School of Business faculty advisor, from the following: AC 211, AC 212, FIN 295, LAW 250, MGT 295, MIS 201, or MKT 295.

Upper-division functional area (9 credits)

Three courses, taken in residence, from a specific functional area: i.e., accounting, finance, international business, management, MIS, or marketing. "Capstone" courses and certain special project courses, such as independent study, may be excluded. (Specific course prerequisites, as shown in course listings given elsewhere in this catalog, must also be taken.) These courses must be approved by a School of Business faculty advisor.

Students must complete the entire business minor course requirements with a minimum cumulative grade point average of

2.00. Students must also receive a grade of C- or better in each minor course taken. Some business minor functional areas may have higher minimum grade and cumulative grade point average requirements. Please check the specific requirements for each functional business minor area.

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 Marketing and Sales Club.

SCHOOL OF EDUCATION AND PROFESSIONAL STUDIES

Mitchell Sakofs, *Dean*

Anne E. Pautz, *Assistant Dean*

Mary Pat Hager, *Associate Counselor*

Phone: 860-832-2100

Fax: 860-832-2109

Website: www.education.ccsu.edu

The School of Education and Professional Studies (SEPS) is a professional school dedicated to the quality preparation of professionals in education and other human service settings. As an integral part of Central Connecticut State University's history and traditions, the faculty in the school embrace the University's mission and commitment to "encourage the development and application of knowledge and ideas through research and outreach activities." The school is guided by the purpose of *preparing leaders for service in our communities*. Programs provide students with broad liberal arts and in-depth content area preparation, as well as the professional preparation necessary to practice in their chosen field. The school offers programs leading to the BS degree in education, nursing, physical education and athletic training, and social work. In addition, the school has a variety of programs that lead to Connecticut State Department of Education teacher certification. Currently the School of Education and Professional Studies is organized into eight academic departments:

- Counseling and Family Therapy
- Educational Leadership
- Nursing
- Physical Education and Human Performance
- Reading and Language Arts
- Social Work
- 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.

Undergraduate Degree Programs Without Teacher Certification

Three programs are offered which lead to a BS degree, but do not include any type of teacher certification. The Department of

Physical Education and Human Performance offers a major in athletic training and an option in exercise science and health promotion. The Department of Nursing offers a major in nursing, and the Department of Social Work offers a major in social work.

Each of these programs has its own admission requirements. Students who are denied admission to the professional level may obtain a copy of the SEPS appeals process from the office of the dean.

Professional Program for Teacher Certification

Degree Programs and Certification

To fully understand the teaching 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.

School teachers in the state of Connecticut are 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, 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 expe-

riences 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.

The unifying theme for the conceptual framework is: *Preparing Leaders for Service in Our Communities*. The conceptual framework is comprised of the following themes (outcomes) and connected elements (proficiencies):

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 and the Higher Education Act of 1998, all institutions of higher education that receive federal financial aid monies and have teacher preparation programs must report the teacher certification-test pass rates for their program completers. Any institution that has been identified as “low performing” by the state must also report this designation to the public.

CCSU defines “program completer” as a student who has met the academic requirements of the Professional Program for Teacher Certification. The students who form the CCSU cohort of program completers finish 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). Students complete subject/content area requirements equivalent to non-education majors in the same fields. In addition, students receive a thorough grounding in pedagogy and extensive school-based field experiences to prepare them to be educational leaders in the learning communities of Connecticut. There were 304 program completers identified in the 2005–2006 cohort. They took a total of 1107 individual Praxis tests, passing 1063 of those tests. This yielded a summary institutional passing rate of 96%, comparable to the statewide rate of 98%.

Undergraduate Degree Programs Leading to Teacher Certification

The following programs lead to a BS degree and prepare a student for teacher certification in the state of Connecticut:

- Early childhood education (no applications are being accepted at the present time)
- Elementary education
- Secondary education in the following subjects: biology, chemistry, earth science, English, French, general 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 (860-832-2590).

Students who are interested in becoming special education teachers must complete teacher certification at the graduate level. Contact the Department of Special Education (860-832-2400), or refer to the *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 Professional Program for Teacher Certification

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 Department of Teacher Education.

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:

- Positive 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; and
- 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, nursing, or social work. 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 the School of Education and Professional Studies.

The Professional Program is subject to change based on Connecticut regulations. Students must complete the Professional Program in place at the time they apply to the Professional Program, regardless of when they were admitted to the University.

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). 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) Praxis I may also be waived based on ACT, Prueba De Aptitud Academica (PAA), or GRE scores. See the State Department of Education website at www.ctcert.org for details.

Praxis I waiver information is available in the information rack the dean's office (HB 248) or through the Connecticut State Department of Education website: www.ctcert.org.

- Have a cumulative grade point average (GPA) of 2.70 at CCSU and a cumulative 2.70 GPA including *all undergraduate* coursework taken at all institutions (including CCSU). Students may appeal for a waiver of the GPA requirement based on demonstrated academic ability and intervening life experience; see "Appeals Process" on page 87. Because some programs have additional GPA requirements, please see requirements specific to each program for details.
- Two recommendations (signed originals) related to the student's ability to work with children and adults. Some programs have specific recommendation requirements. See requirements specific to each program for details.
- An essay demonstrating the student's command of the English language. Some programs have additional essay requirements. See requirements specific to each program for details.
- Pass an interview, conducted after the Professional Program application is submitted, with a faculty team demonstrating an acceptable standard of knowledge, skills, and dispositions important to effective teaching performance.

Additional Program Specific Requirements

Art Education:

- Successfully complete ART 112, ART 113, ART 120, and PSY 236. Students may be enrolled in these courses at time of Professional Program application but must complete them before Professional Program admission will be granted;
- Pass departmental portfolio review; and
- Minimum overall 3.00 GPA calculated on all courses with the ART prefix (or its equivalent on transfer courses).

Biology, Chemistry, Earth Science, General Science, or Physics Education:

- An original laboratory report (or program-approved substitute) which the student has recently written and is the sole author; and
- Post-baccalaureate students also must have no more than three courses remaining in the certification content area at the time of Professional Program application.

Business Education:

The business education certification program is only offered at the graduate level. See the *Graduate Catalog* for details.

Elementary Education:

- Grade of "C" or better in the following courses: ENG 110, HIST 161 or 162, MATH 113 or 213, PSY 236, EDT 210, EDTE 210, PSY 362 or 361. Students may be enrolled in the above courses at the time of Professional Program application but must complete them before Professional Program admission will be granted;
- GPA of 2.70 calculated on a minimum of 15 credits required in the subject matter major. The 2.70 subject matter major GPA, with no grade less than a C-, must be maintained throughout the Professional Program. Students may be enrolled in the 15 credits of subject matter courses at the time of Professional Program application but must complete the 15 credits at this standard before Professional Program admission will be granted;
- The two recommendations should be on the program-approved recommendation form. One recommendation must be from a faculty member in the subject matter major. The other must come from a professional individual who has observed the student's work with children;
- Pass a second on-site departmental essay completed after Professional Program application is submitted; and
- Document 30 hours of quality experience with children on the program-approved experience documentation form.

English Education:

- Minimum overall 3.00 GPA calculated on all courses with the ENG and LING prefixes (or their equivalents on transfer courses);
- The following courses must be successfully completed *before applying* to the Professional Program: LING 200, all four required sophomore surveys (ENG 203 or 204, ENG 205, ENG 210, and one course from among ENG 203, 204, 206, or 211), ENG 220, and ENG 449, and
- One of the two letters of recommendation must be from a CCSU English faculty member.

History/Social Studies Education:

- Minimum overall 3.00 GPA calculated on all courses with the ANTH, ECON, GEOG, HIST, SOC, PS prefixes (or equivalent transfer courses);
- One of the two letters of recommendation must be a positive letter from a

full-time faculty member of the Department of History;

- All students must have a grade of “B” or better in HIST 301 or a department-approved equivalent. Undergraduate students must have met this requirement before applying to the Professional Program. Post-baccalaureate students may request a waiver from the history department to take HIST 301 in the semester of Professional Program application but the course must be completed before full Professional Program admission will be granted. Any student wishing to substitute a class from another university as an equivalent to either of these classes must get approval from the department before submitting a Professional Program application; and
- Additional post-baccalaureate student requirement only: Passing Praxis II (test 0081) scores to be submitted with the Professional Program application.

Languages—French, German, Italian, or Spanish Education:

These programs have no special program requirements.

Mathematics Education:

- Minimum overall GPA of 2.70 calculated on mathematics courses counting toward major, with no more than two repeats;
- Completion of three mathematics courses at CCSU with a grade of C- or better in each. This requirement may be waived with prior department approval;
- Completion of Calculus II (MATH 221) with a grade of C- or better before applying to the Professional Program;
- One of the two letters of recommendation must be from a faculty member in the CCSU Department of Mathematical Sciences; and
- Pass a second mathematics essay written on the program-approved essay form.

Music Education:

- Pass at least 60% of piano proficiency exam; and
- Successfully complete MUS 101, MUS 216, MUS 222, and MUS 278 before applying to the Professional Program.

Physical Education:

- Minimum 3.00 GPA on all courses in the physical education major;
- Successfully complete EXS 213 (formerly PE 213), PE 111, and two skills courses in the Physical Education major *before applying* to the Professional Program; and

- Successfully complete PE 299 and EDTE 314. Student may be enrolled in these at the time of application but must complete them before admission will be granted.

Special Education:

The Special Education certification program is only offered at the graduate level. See the Graduate Catalog for details.

Technology and Engineering Education:

- Non-transfer undergraduate students must have completed or be enrolled in 15 credits at CCSU in TE, MFG, EMEC, GRT, or TC prefixed courses at time of Professional Program application;
- Undergraduate transfer students must have completed or be enrolled in nine credits at CCSU in TE, MFG, EMEC, GRT, or TC prefixed courses at time of Professional Program application;
- Post-baccalaureate certification students must have completed or be enrolled in six credits at CCSU in TE, MFG, EMEC, GRT, or TC prefixed courses at time of Professional Program application; and
- All students must have successfully completed TE 199 at time of Professional Program application.

TESOL:

The TESOL (Teaching English to Speakers of Other Languages) certification program is only offered at the graduate level. See the Graduate Catalog for details.

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 203).
- Application packets are available in the information racks outside the dean’s office (HB 203) 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. The assistant dean of the School of Education and Professional Studies makes the final decision.

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 Program for the following reasons:

- Overall or Professional Program GPA drops below 2.70,
- Falsification of information or documentation,
- Inappropriate or unprofessional behavior, attitudes, or attributes that negatively impact performance as a teacher,
- Inappropriate responses in various contexts that negatively affect performance as a teacher,
- Unacceptable performance during a field experience or student teaching,
- Unacceptable performance on performance assessments,
- Failure to adhere to the Connecticut Code of Professional Responsibility for Teachers,
- Failure to maintain confidentiality of all information concerning colleagues and students obtained during the educational process,
- Failure to demonstrate at all times integrity and honesty in written and verbal communications, documentation, and coursework related to the Professional Program,
- Conviction of crime of moral turpitude or crime that in the opinion of the University would impair the standing of the School of Education and Professional Studies, 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, general science, German, history/social studies, Italian, mathematics, physics, 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 School of Graduate Studies*. 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 office of the School of Graduate Studies) 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 84 of this catalog, under the section titled Admission to a Teacher Preparation Professional Program.

Repeat Policy

An exception to the course repeat policy (see page 40) 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 Professional Programs

Denial of admission to the Professional Program for Teacher Certification, removal from the Professional Program, denial of approval to participate in field experiences or Student Teaching, or removal from field experiences or Student Teaching are academic decisions which reflect careful and deliberate judgment by faculty. Factors which are considered in such decisions include, but are not limited to, the adequate development of the student, Professional Program requirements and performance standards, the Connecticut Code of Professional Responsibility for Teachers, professional performance standards and attributes mandated by the Connecticut State Department of Education, National Council for the Accreditation of Teacher Education standards, and the Professional Program's unique responsibilities to children and schools.

The University recognizes that on occasions there may be an error or palpable injustice in the determination of denial of admission to the Professional Program, removal from the Professional Program, denial of approval to participate in field experiences or student teaching, or removal from field experiences or student teaching. A student who believes that an error or a palpable injustice has occurred in procedures in arriving at a decision may pursue an appeal. A copy of the

full appeals policy may be obtained from the office of the dean of the School of Education and Professional Studies.

In addition to appeals based on error or palpable injustice, a student whose undergraduate cumulative GPA is below 2.70 may appeal for a waiver of the admission GPA requirements. 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:

- Demonstrated academic ability in recent coursework with an exemplary GPA showing a different pattern of performance from prior undergraduate course work; and
- 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 by the School of Education and Professional Studies appeals committee. The committee will make a recommendation to the dean, who will make the final decision. 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 contact the assistant dean to discuss issues concerning the application.

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 BS 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 during the last semester of enrollment.

To apply for certification, undergraduate teacher candidates must:

- Obtain a Steps to Certification information sheet from the information rack outside of the dean's office (HB 248). Complete and submit the state of Connecticut certification application to the dean's office.
- Submit a copy of the appropriate passing Praxis II or ACTFL scores with the application.

- Once the CCSU Certification Officer reviews and signs the form, submit it to the Connecticut Bureau of Teacher Certification with the applicable fee.
- The Initial Educator Certificate will be issued by the Connecticut State Department of Education.

When registering for the Praxis II test, candidates must request their report be sent to:

- Central Connecticut State University (Score Recipient Code Number R3898).
- 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 website: <http://www.ets.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

(Post-baccalaureate degrees only)

Faculty

C. Tait, *Chair*; R. Cohen, J. Fried, J. Rosenberg, D. Wiener (*Dept. phone 860-832-2154*)

Department Overview

The department offers a MS 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

(Post-baccalaureate degrees only)

Faculty

A. Rigazio-DiGilio, *Chair, Barnard 260*; F. Abed, *Coordinator of the EDT program*; K. Beyard, *Director of the Ed.D. program, Barnard 329*; J. Drone, J. Faryniarz, E. Heinen, P. Lisi, T. Reagan, E. Retelle, O. Sogunro, B. Sponder, A. Vaillant, S. Watson (*Dept. phone 860-832-2130*)

Department Overview

The Department of Educational Leadership offers a MS in educational technology, a MS 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

Faculty

C. G. Williams, *Chair*; M. Levvis (*Dept. phone 860-832-0032*)

Department Overview

The department offers a baccalaureate program, the BS in nursing (BSN), 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. The BSN is accredited by the Commission on Collegiate Nursing Education.

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.

Programs

MAJOR IN NURSING, BSN

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) prior to enrolling in NRSE 303; and
- 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 articulation credits (lower division nursing credits) of 30 credits and NRSE 299, 300, 301, 303, 410, 412, 414. In addition, BIO 412, 413; PS 448; PSY 236 are required. Degree program totals 125 credits. No minor is required for this major.

PreNursing

This option enables students to complete prerequisites and General Education, and two nursing courses (NRSE 301 and 246), while awaiting acceptance into a community college nursing program. Students gain credit toward residence at CCSU and receive advisement from the Department of Nursing faculty once they are matriculated.

MINOR IN GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog.

Physical Education and Human Performance

Faculty

D. V. Harackiewicz, *Chair*; J. Bishop, A. B. Captao, M. Cummiskey, C. J. Fellows, F. J. Frangione, T. J. McCarthy, P. Morano, V. S. Morley, E. O'Neill, K. B. Pirog, S. H. Smith, K. Tower, M. Voight, S. Walsh
(Dept. phone 860-832-2155)

Department Overview

The Department of Physical Education and Human Performance 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.

Programs

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. The physical education program is accredited by the National Association for Sport & Physical Education (NASPE), an association of the American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD).

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.

The program is in the process of becoming accredited in exercise science and health promotion by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

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 (BOC). The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Students who complete this program meet the requirements for eligibility to take the written, practical and written simulation examinations administered by the BOC for certification as an athletic trainer.

MAJOR IN PHYSICAL EDUCATION, BSED

82 credits in physical education skill and lecture courses as follows:

Lecture Courses (46 credits)

PE 111	Orientation to Physical Education
EXS 210	Personal and Community Health
EXS 213	Anatomy and Physiology in Human Performance I
EXS 214	Anatomy and Physiology in Human Performance II
EXS 216	Kinesiology
PE 299	Psycho-Social Aspects of PE
PE 300	Developmental Movement
PE 305	Evaluation in Physical Education
PE 405*	Elementary Methods in PE
PE 406*	Adapted Physical Education
PE 408*	The Curriculum Process in K-12 PE
EXS 410*	Exercise Physiology
PE 416*	Organization & Administration of PE
PE 417*	Secondary Methods in Physical Education
PE 420*	Lifespan Motor Development
PE 422*	Motor Learning

Skill Courses (17 credits)

PE 219	Methods of Teaching Golf
PE 273	Tumbling and Gymnastics
PE 277	Outdoor Adventure Activities
PE 278	Methods of Teaching Games
PE 279	Methods of Teaching Team Sports
PE 280	Methods of Teaching Racquet Sports
PE 374	Methods of Teaching Fitness

DAN 272	Creative Dance in Education
DAN 377	Modern Dance and Theory

Professional Education Courses (19 credits)	
EDT 315*	Educational Technology in the Secondary School Classroom
EDTE 314	Applied Learning Theories, K-12 Programs
EDF 415*	Educational Foundations
EDSC 417*	Student Teaching, Elementary PE
EDSC 419*	Student Teaching, Secondary PE

*Require admission to the Professional Program prior to enrollment

Required General Education Courses: BIO 111 or BIO 121 or BMS 111, CHEM 111 or CHEM 150 or CHEM 161/162, ENG 110, HIST 161, HIST 162, 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 84.

MAJOR IN PHYSICAL EDUCATION: EXERCISE SCIENCE AND HEALTH PROMOTION, BS (not certifiable for teaching)

64 credits in Physical Education as follows:

Lecture Courses (59 credits)

EXS 110	Concepts in Fitness
EXS 113	Introduction to Exercise Science
EXS 210	Personal and Community Health
EXS 213	Anatomy and Physiology in Human Performance I
EXS 214	Anatomy and Physiology in Human Performance II
EXS 216	Kinesiology
EXS 217	Care and Treatment of Athletic Injuries
EXS 307	Human Nutrition
EXS 311	Stress Management
EXS 331	Measurement and Evaluation in Exercise Science
EXS 380	Leadership in Exercise and Wellness
EXS 383	Recreation and Physical Activity for the Aging
or	
EXS 215	Physiological Aspects of the Human Performance of the Aging

EXS 398	Exercise for Special Populations
EXS 412	The Application of Tort Law to Physical Activity
EXS 414*	Physiology of Sport and Exercise
EXS 415*	Fitness Assessment and Exercise Prescription
EXS 421*	Pharmacology in Sports Medicine
EXS 425*	Implementation and Evaluation of Health Promotion Programs
EXS 450*	Practicum in Exercise Science
EXS 470*	Internship in Exercise and Health Promotion

Skill Courses (5 credits)

EXS 201	Teaching Aerobics: Dance, Step, and Aqua
EXS 375	Training for Sport Performance

* Require admission to the Professional Program prior to enrollment

Required General Education Courses: BIO 111 or BMS 111 or BIO 121, CHEM 111 or CHEM 150 or CHEM 161/162, ENG 110, HIST 161, HIST 162, 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 Human Performance. 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 Human Performance, Kaiser Hall, Room 0180.

Requirements for Admission

The following are departmental requirements for admission to the exercise science and health promotion program:

- Completion of application to the Professional Program for exercise science and health promotion;

- Completion of 45 credits of academic work;
- Successful completion of 5 credits of required physical education lecture courses including EXS 213 and 2 credits of required skill courses;
- University GPA of 2.50;
- Departmental GPA of 2.50;
- Two letters of recommendation (from persons who can best assess the candidates potential);
- The presentation of an essay demonstrating command of the English language, setting out the reasons for wanting to enroll in the program; and
- An interview with the Personnel Committee of the Department of Physical Education and Human Performance

Retention Policy

The following requirements must be maintained in order to remain in good standing within the exercise science and health promotion program.

- Students must maintain a University GPA of 2.50; and
- Students must maintain a Departmental GPA 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, BS (not certifiable for teaching) 69 credits as follows:

Lecture Courses (54 credits)

EXS 110	Concepts in Fitness
EXS 112	Introduction to Athletic Training
EXS 210	Personal and Community Health
EXS 213	Anatomy and Physiology in Human Performance I
EXS 214	Anatomy and Physiology in Human Performance II
EXS 216	Kinesiology
EXS 217	Care and Treatment of Athletic Injuries
EXS 218	Scientific Basis for Athletic Training
EXS 307	Human Nutrition
EXS 317	Therapeutics in Athletic Training
EXS 332	Psychological Aspects of Sport
EXS 398	Exercise for Special Populations

EXS 413*	Organization and Administration of Athletic Training
EXS 414*	Physiology of Sport and Exercise
EXS 415*	Fitness Assessment and Exercise Prescription
EXS 421*	Pharmacology in Sports Medicine
EXS 440	Therapeutic Modalities in Athletic Training
BMS 380	Emergency Medical Technician (EMT)

Practicum Courses (15 credits)

EXS 315*	Practicum in Athletic Training I
EXS 316*	Practicum in Athletic Training II
EXS 319*	Practicum in Athletic Training III
EXS 375	Training for Sport Performance
EXS 445*	Internship in Athletic Training

* Require admission to the Professional Program prior to enrollment.

Required General Education Courses: BIO 111 or BMS 111 or BIO 121, CHEM 111 or CHEM 150 or CHEM 161/162, ENG 110, STAT 104, CS 115, PHYS 111, PSY 236, COMM 140

No minor is required for this major.

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 preseason experience at CCSU that typically runs from early August to the first day of classes, and a fifth semester in an off-campus affiliation. The BOC and CAATE require a minimum of two years clinical rotation (four semesters) which will be under the direct supervision of a certified athletic trainer. Emphasis is placed on mastery of the educational competencies over the five semesters of clinical experience.

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 Human Performance. The applicant's completed file should be submitted prior to September 21 for fall candi-

dates 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 Human Performance, Kaiser Hall, Room 0180.

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.

- Completion of application to the Professional Program for athletic training;
- Successful completion of 200 observation hours in the clinical aspect of athletic training at CCSU;
- Completion of 45 credits of academic work at CCSU as an athletic training major;
- Successful completion of EXS 112, EXS 213 and 217 (at CCSU), with a grade of C- or better in all courses;
- Successful completion of BMS 380;
- University GPA of 2.50;
- Departmental GPA of 2.50;
- Two letters of recommendation (from persons who can best assess the candidates potential);
- 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); and
- An interview with the Personnel Committee of the Department of Physical Education and Human Performance, 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 Athletic Training Education [CAATE]). All students admitted to the Professional Program in athletic training must meet the following abilities and expectations. In the event a student is unable to fulfill these technical stan-

dards, 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 BOC certification exam.

Candidates for admission to the Professional Program in athletic training at CCSU must demonstrate:

- 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;
- 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;
- 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;
- The demonstrated ability to record the physical examination results and a treatment plan clearly and accurately;
- The demonstrated ability to maintain composure and continue to function effectively during periods of high stress;
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
- Demonstration of flexibility and ability to adjust to changing situations and uncertainty in clinical situations; and
- 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 Student Disability Services in Copernicus, Room 241, 860-832-1900, TTY 860-832-1954. Special Disability 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 the athletic training education program and the chair of the Department of Physical Education & Human Performance.

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

Once admitted to the Professional Program, the following requirements must be maintained in order to remain in "good standing" within the athletic training education program.

- Students must maintain a University GPA of 2.50;
- Students must maintain a departmental GPA of 2.50;
- Students must successfully demonstrate required clinical skill competencies; and
- Students must have a current state of Connecticut or National Registry EMT-B Certification.

If a candidate drops below the required GPA levels and/or fails to complete the clinical skill competencies, he or she may be denied enrollment to Professional Program courses, practicum courses, and internship assignments until the GPA or competencies reach the appropriate level.

Note: Revisions to the athletic training education program may occur in order to maintain compliance with national accreditation standards. Students should check with the program director and/or the CCSU athletic training education website regarding the possibility of new requirements. All practicum courses and internship assignments require

the student to be in "good standing" in addition to having a current state of Connecticut or National Registry EMT-B Certification.

Transfer Students Policy

Transfer students must meet the same course requirements and application procedures as CCSU students. Transfer students are required to complete a minimum of 15 credits "in residence" at CCSU prior to applying to the Professional Program. The 15 credits for transfer students may be in General Education and/or within the athletic training education program and must include, at CCSU, EXS 112 Introduction to Athletic Training and EXS 217 Care and Treatment of Athletic Injuries.

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 a given year.

For acceptance into the athletic training education program, transfer students must complete a required (minimum) 200 clinical hours.

MINOR IN GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog.

Reading and Language Arts

(Post-baccalaureate degrees only)

Faculty

H. Abadiano, *Chair (Barnard 245)*;
B. Davies (emeritus), E. Demos,
C. Kurkjian, C. Mulcahy, J. Turner,
L. Valerie, K. Weiss (*Dept. phone 860-832-2175*)

Department Overview

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 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.

Social Work

Faculty

C. R. Baratta, *Chair*; P. Hensley (*Dept. phone 860-832-3129*)

Department Overview

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 2.30 (C+) or better in all social work courses, as well as a grade of C or better in all prerequisites required for the major. 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. All social work majors 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. It is expected that all General Education requirements will be completed prior to the start of a student's senior field education experience. However, it is possible that the student and/or instructor conclude that a student is

not fully motivated toward an understanding of the professional, as well as the academic, responsibilities this major requires. If a student does not meet academic or professional standards (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 department chair regarding the possibility of new requirements.

Program

MAJOR IN SOCIAL WORK, BA

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; SW 100 or SOC 111, SOC 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.

No minor is required for this major.

Special Education

Faculty

M. Beck, *Chair*; J. Foshay, J. Nicoll-Senft, E. Pancsofar (*Dept. phone 860-832-2400*)

Department Overview

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

Department of Special Education or refer to the *Graduate Catalog* for further information.

Teacher Education

Faculty

S. Seider, *Chair*; A. Ayalon, *Assistant to Chair*; E. Aaronsohn, R. Casella, B. Clark, G. Cueto, L. George, N. Hoffman, M. Howell, L. Klein, M. Matthews, D. Mulcahy, K. Riem (*Dept. phone 860-832-2415*)

Department Overview

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 (no applications are being accepted at the present time);
- Elementary education;
- Secondary education; and
- All-level (K–12).

Note: For information on admission to the Professional Program, see page 84.

Programs

MAJOR IN EARLY CHILDHOOD EDUCATION, BS

Contact person: M. Howell (860-832-2422)
This program is not currently accepting applications.

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, HIST 161 or 162, and PSY 236 and 361.

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 School of Arts and Science sections for specific course requirements.) The required human growth and development courses are: PSY 112, PSY 200, PSY 239, PSY 361, PSY 365, 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 316 Comprehensive Reading Instruction II
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 423 Literacy for Early Childhood
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.

MAJOR IN ELEMENTARY EDUCATION, BS

Coordinator: S. Seider (860-832-2429)

Program Requirements (130 credits)

General Education requirements as follows: ENG 110, MATH 113, MATH 213 and BIO 211, HIST 161 or 162, PSY 236, ESCI 111, or any other ESCI course. Elementary education majors are also required to take either PSY 362 or 361.

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, general science with a specialization in biology, or general 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; and
- Mathematics with a complementary area of biology or earth science.

See School of 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: Elementary
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.

MAJOR IN SECONDARY EDUCATION AND ALL-LEVEL SUBJECTS, BS

Coordinator: A. Ayalon (860-832-2135)

Program Requirements (130 credits)

General Education requirements for secondary programs are as follows: 6 credits in English (ENG 110 is required), HIST 161 or 162, PSY 236, 6 credits of science, and 6 credits in mathematics. For all-level program requirements, students should consult the chair of their major 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, general science, German, history & social studies, Italian, mathematics, physics, Spanish, and
 - All-levels: art, music, physical education, technology and engineering education
- See Schools of Arts and Sciences 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 School of Arts and Sciences 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 (Sec/K–12)

or

EDTE 314 Applied Learning Theories (K–12 Programs)

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 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 (860-832-2144)

All students in early childhood, elementary, secondary education, special education, and NK–12 programs are required to complete student teaching. In order to student teach, a student must:

- be accepted to the Professional Program prior to submitting an application;
- have and maintain a 2.70 cumulative GPA;
- complete a student teacher application and necessary paperwork;
- submit student teacher application with all accompanying documents by the fol-

lowing deadlines—October 1 for the spring semester; March 1 for the fall semester (Note: All-level and technology engineering education deadline is Sept. 15 for spring and Feb. 15 for fall);

- satisfactorily complete all prerequisite courses prior to student teaching with a C or better; have and maintain a 2.70 cumulative GPA;
- have satisfactorily completed any incomplete grades received in major area of study or a Professional Program course; and
- register for student teaching.

For other office of Field Experience policies, including removal from student teaching, please refer to the *Student Teaching Handbook*, available online at the office of Field Experience website and in Barnard Hall, Room 309.

Additional student teaching requirements are outlined in the student teaching application that is available at www.ccsu.edu/ofe/ or from the office of Field Experiences.

Applications are taken by appointment only; appointments may be made in person in Barnard Hall, Room 309A.

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: 860-832-1804

Website: www.technology.ccsu.edu

The School of Technology prepares graduates in professional technological fields. The only public school of technology in the state of Connecticut, it consists of five departments: Biomolecular Sciences, Computer Electronics and Graphics Technology, Engineering, Manufacturing and Construction Management, and Technology Education. The school offers degrees in biomolecular science, engineering technology, and technology, leading to a wide variety of careers. In conjunction with the School of Education and Professional Studies, the BS degree (in education) prepares individuals for teaching careers in technology education.

The school provides students with an opportunity to be educated in these dynamic fields of science and 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; how to conduct research; and industrial organization and management. Biomolecular science students will be prepared for careers in molecular biological research, graduate study in the molecular life sciences, or professional training in medicine or health-related fields.

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.

Biomolecular Sciences

Faculty

T. R. King, *Chair*; M. A. Davis, B. L. Dobbs-McAuliffe, B. Hoopengardner, M. A. Kapper, K. A. Martin-Troy, J. P. Mulrooney, C. L. Watson (*Dept. phone: 860-832-3560; fax: 860-832-3562*)

Department Overview

The Department of Biomolecular Sciences offers instruction in molecular biology, microbiology, cell biology, genetics, development, and physiology that is strongly integrated with the theory and practice of molecular biological research. The department offers two BS degrees in biomolecular sciences and participates in an additional interdisciplinary program that leads to a BS degree in biochemistry. In addition, the department offers a minor in biomolecular science appropriate for students with majors other than biomolecular science. In addition, the department is pleased to offer health-related courses to support undergraduate programs in gerontology, nursing, physical education, athletic training, and other non-science majors.

Student-centered research is a feature of all undergraduate programs in biomolecular sciences. Located in Copernicus Hall, the Department of Biomolecular Sciences includes a wide range of modern research equipment in laboratories designed both for class instruction and for independent student research. Special facilities include a protein purification and analysis facility, a cell culture facility, a molecular genetics research laboratory, a laboratory animal care suite, a microbiology laboratory that is certified by the CT State Department of Public Health, and several computer laboratories. Student-centered biomolecular research activity is also promoted, fostered, and supported by the Biotechnology Institute at CCSU, an interdisciplinary organization (housed in the Department of Biomolecular Sciences) that is dedicated to developing college graduates with excellent research skills. The Department of Biomolecular Sciences is strongly committed to student advising and routinely promotes and participates in academic and extracurricular activities aimed at facilitating student learning and success.

Programs

MAJOR IN BIOMOLECULAR SCIENCES, BS (Non-teaching)

Core (11 credits):

BMS 102 and 103, 190, 201, 290, 390, and 491, and *one* of the following advanced components. BIO 121 may be substituted for BMS 102/103.

Advanced Component Options (35 credits required in the major)

General Program

This program offers a curricular focus on molecular and cellular mechanisms that is integrated with organismal physiology and emphasizes hands-on learning through laboratory instruction and independent student research. This degree is appropriate for students wishing to prepare for professional training in medicine or for graduate study in such areas as genetics, microbiology, molecular biology, or cell physiology.

This program requires completion of the core; plus three laboratory courses, including BMS 306, 311, 316; and additional directed electives to complete 35 credits in the major, chosen from BMS 318, 319, 320, 322, 391, 412/413, 414, 415, 416, 490, 495, 496/497, 499, CHEM 320, 354/455, 456, BIO 416, or 449/450.

Biotechnology Specialization

This program offers a strong focus on the principles of cell and molecular biology and emphasizes the practice of biomolecular research. It is designed to prepare students for advanced study in the biomolecular sciences or careers that use the concepts and techniques of molecular and cellular biology.

This program requires completion of the core; plus four laboratory courses, including BMS 306, 311, 316, 495; and additional directed electives to complete 35 credits in the major, chosen from BMS 320, 391, 415, 416, 490, 496/497, 499, CHEM 354/455, 456, or BIO 449/450.

Related Requirements (16–28 credits):

In addition to the 35 credits in the major, made up of the core and *one* of the advanced components described above, the student must take MATH 119 and 125 or 152; CHEM 161, 163, 210, 211, 212, and 213; PHYS 121 and 122; and maintain a student portfolio. While no minor is required for the BS in biomolecular sciences, a minor in science may be elected with a C- or better in related requirement courses CHEM 161, 162, 163, 164, PHYS 121, and 122. Some related requirement courses may also be counted to fulfill appropriate portions of the student's General Education program.

Double-listed Courses

BMS 318, 319, 412, and 413 are also listed in the course description section of the catalog with a BIO designator. These double- or cross-listed courses (i.e., BMS 318 and BIO 318) are considered fully equivalent.

500-Level Course Options

Undergraduate students with at least 90 credits and a cumulative GPA of 3.00 or higher may (with the approval of the appropriate department chair and dean, and with appropriate prerequisites) choose any of the following 500-level courses in the directed elective portion of the advanced component of their major program:

BMS 500	Seminar in Biomolecular Science	1
BMS 516	Medical Microbiology	3
BMS 519	Physiology of Human Aging	3
BMS 540	Advanced Topics in Biomolecular Science	3–4
BMS 562	Developmental Biology	3
BMS 570	Advanced Genetics	3

MAJOR IN BIOCHEMISTRY, BS

The BS program in biochemistry provides a strong foundation in both molecular biology and chemistry and is based on faculty, facilities, and research resources in both the Department of Biomolecular Sciences and the Department of Chemistry and Biochemistry. In addition to in-class laboratory instruction, this interdisciplinary program emphasizes independent student research carried out under the guidance of a faculty member from either department. This program is designed to prepare students for careers or advanced study in biochemistry, molecular biology, or health-related fields. For more information, refer to page 111 in this catalog.

Portfolio Requirement

The portfolio requirement in biomolecular sciences will be formally introduced to students during the BMS 190 and 290 introductory core component of all major programs in biomolecular sciences. Minimally, the student portfolio must include a current resume, a current student graduation evaluation or transcript, a planned program of academic study (program sheets available from the Department of Biomolecular Sciences), a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all independent study projects completed, and writing samples from one or more upper-level courses in the major. To fulfill the portfolio requirement in biomolecular sciences, the student portfolio must be reviewed with one or more faculty members in biomolecular sciences:

- as a course requirement in BMS 190 and 290;

- as a required component of all BMS 390, 391, or 491 independent studies or internships; and
- prior to application for graduation, as evidenced by submission of a Portfolio Requirement Completed form (available from the Department of Biomolecular Sciences and signed by the major advisor) to the biomolecular sciences Chair.

MINOR IN BIOMOLECULAR SCIENCES (non-teaching)

20 credits, including BMS 102, 103, 190, 201, and 290; and 11 additional credits of BMS courses, as approved by the biomolecular sciences advisor. BIO 121 may be substituted for BMS 102/103.

MINOR IN GERONTOLOGY

The minor in gerontology provides students with a solid background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. The minor incorporates courses from the schools of Arts and Sciences, Education and Professional Studies, and Technology. For more information, refer to page 112 of this catalog.

Computer Electronics and Graphics Technology

Faculty

K. C. Tracey, *Chair*; F. Farahmand, M. C. Haase, O. Odesina, V. Rajaravivarma, S. E. Rich, D. Zanella (*Dept. phone 860-832-1830; Fax 860-832-1806; website: www.technology.ccsu.edu*)

Department Overview

The Department of Computer Electronics and Graphics Technology offers the following undergraduate BS degree and graduate MS degree programs:

- BS Computer engineering technology
- BS Electronics technology
- BS Industrial Technology with specializations in
 - networking technology
 - graphics technology
- MS Computer information technology

The mission of the Department of Computer Electronics and Graphics Technology is to provide educational opportunities in computer engineering, electronics, graphics, networking, and interrelated technological and managerial disciplines. We prepare students to meet dynamic technological challenges as leaders and members of technical design, engineering, and management teams. 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 programs in four years.

Programs

MAJOR IN ELECTRONICS TECHNOLOGY, BS (122 credits)

Advisor: D. Zanella (860-832-1841)
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.

Specialization Requirements (30 credits)

CET 113	Introduction to Information Processing	3
CET 223	Basic Electrical Circuits	3
CET 233	Advanced Electrical Circuits	3
CET 323	Electronic Circuits	3
CET 363	Digital Circuits	3
CET 443	Electronic Communication	3
CET 453	Microcomputers	3
EMEC 114	Introduction to Energy Processing	3

EMEC 303	Electromechanical Converters	3
MFG 121	Technical Drafting & CAD	3

Directed Electives (9 credits)
Chosen with an advisor

Core Courses (24 credits)

IT 190	Introduction to Quality Assurance	3
IT 310	Industrial Safety	3
IT 362	Leadership Skills for Supervisors	3
IT 401	Industrial Internship	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

General Education Requirements

A total of 44–46 credits in General Education studies must be completed as part of all baccalaureate degree programs. Electronics 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.

MAJOR IN COMPUTER ENGINEERING TECHNOLOGY, BS (124 credits)

The BS in computer engineering technology (CET) was granted licensure in November 2004. The CET degree responds to the fact that computers and networks have been two of the leading technologies driving engineering job markets. As with many of the programs in the School of Technology, students explore hardware and software in a hands-on dedicated networking laboratory. Students will use computational methods, computers, and modern technical tools in engineering practice, in addition to learning about state-of-the-art technology in the areas of wired and wireless network communication, engineering design, advanced PC

operating systems, internet technology, and computer programming.

As students gain knowledge of hardware and engineering processes and prepare to take industry-based certification exams, they can look forward to well-paying careers. Some will become systems administrators, network administrators, system designers, quality control engineers, and software developers. Others may find positions as information technologists, lab technicians, system maintenance experts, system testers, and help desk operators.

Specialization Requirements (42 credits)

CET 113	Introduction to Information Processing	3
CET 201	Photonics Principles	3
CET 229	Computer Hardware Architecture	3
CET 236	Circuit Analysis	3
CET 249	Introduction to Networking Technology	3
CET 323	Electronic Circuits	3
CET 339	Computer System Administration	3
CET 346	Signals & Systems	3
CET 349	Networking Devices	3
CET 363	Digital Circuits	3
CET 449	Advanced Networking	3
CET 453	Microcomputers	3
CET 466	Logic Design	3
CET 498	Senior Project (Capstone)	3

Core Requirements (27 credits)

ENGR 150	Introduction to Engineering	3
ET 251	Applied Mechanics I—Statics	3
ETM 260	CAD and Integrated Manufacturing	3
or		
MFG 121	Technical Drafting & CAD	3
ETM 356	Materials Analysis	3
ET 357	Strength of Materials	3
STAT 104	Elementary Statistics	3
ENG 403	Technical Writing	3
CS 151	Computer Science I	3
or		
CS 213	Applications of Computing I	3
CS 152	Computer Science II	3
or		
CS 214	Applications of Computing II	3

Directed Electives (9 credits)

Suggested directed electives. Other courses may be selected in consultation with an advisor.

CET 301	Fiber-Optics Communications	3
CET 459	Network Security Technologies	3
CET 479	Internet Technologies	3
CS 153	Computer Science III (MATH 152/221 required)	3

General Education Requirements

Required courses include PHYS 121 or 125, and PHYS 122 or 126 in Study Area IV; ENG 110 and COMM 140 in Skill Area I; MATH 135 or MATH 152 in Skill Area II; MATH 136 or MATH 221 in Skill Area II; PE 144 in Skill Area IV.

MAJOR IN INDUSTRIAL TECHNOLOGY, BS (122 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 this page. For all industrial technology specializations, there is a graduation requirement of a capstone assessment during a student's final semester of study.

Specialization in Graphics Technology

Advisors: S. E. Rich (860-832-1832), M. Haase (860-832-1837), O. Odesina (860-832-1833)

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 (30 credits)

CS 110	Introduction to Internet Programming and Applications	3
ART 120	Design I	3

CET 113 Introduction to Information Processing	3
GRT 112 Digital Imaging for Graphics Technology	3
GRT 212 Graphic Arts Processes	3
GRT 242 Introduction to Graphic Design and Color	3
GRT 342 Screen Printing and Post-Press Operation	3
GRT 362 Estimating and Scheduling for Graphics Technology	3
GRT 442 Print Production	3
GRT 462 Advanced Graphic Arts Techniques	3
Directed Electives	9

Specialization in Networking Technology
Advisors: V. Rajaravivarma (860-832-0075),
 K. Tracey (860-832-1842)

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 (27 credits)	
CET 113 Introduction to Information Processing	3
CET 223 Basic Electrical Circuits	3
CET 229 Computer Hardware Architecture	3
CET 249 Introduction to Networking Technology	3
CET 339 Computer System Administration	3
CET 349 Networking Devices	3
CET 363 Digital Circuits	3
CET 449 Advanced Networking	3
CET 479 Internet Technologies	3
Directed electives	12
Selected in consultation with advisor	

Note: A minor is not required for this major.

MINOR IN NETWORKING TECHNOLOGY

18 credits as follows:

CET 223 Basic Electrical Circuits	3
CET 229 Computer Hardware Architecture	3

CET 249 Introduction to Networking Technology	3
CET 349 Networking Devices	3
CET 363 Digital Circuits	3
CET 449 Advanced Networking	3

Engineering

Faculty

A. Gates, P.E., *Chair* (860-832-1823);
 N. Al-Masoud, G. D. Alungbe, P.E.;
 C. E. Anderson; S. Basim; P. F. Baumann;
 L. Lema, CMfgE; E.J. Maydock;
 O.A. Powell, P.E.; Z. Prusak (*Dept. phone*
 860-832-1815; *Fax* 860-832-1811; *Website:*
 www.technology.ccsu.edu)

Department Overview

The Department of Engineering offers the BS with majors in engineering and engineering technology.

The department offers three engineering technology 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) website at www.ncees.org.

The department offers a mechanical engineering major aimed at preparing engineering designers with critical thinking and analytical skills. In addition to the general degree, specializations in manufacturing and aerospace are offered.

Plans of Study

Those students enrolled in the Department of Engineering 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 program in four years. The engineering technology major does not require a minor. Engineering majors receive a math minor. A co-op experience is suggested for all students.

Programs

MAJOR IN ENGINEERING TECHNOLOGY, BS

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 6 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 144 or ENGR 150	

* 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 following three majors: civil, manufacturing, and 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.

MAJOR IN CIVIL ENGINEERING TECHNOLOGY, BS

Accredited by TAC of ABET

Advisor: S.C. Basim, P.E. (860-832-1807)

This major provides students with a background in design support, construction, and maintenance of the infrastructure. Graduates may work in consulting firms, construction organizations, testing laboratories, municipal governments, and utility companies. Emphasis is on the areas of surveying, materials, structures, and use of the computer in the civil and construction industries.

Major Requirements

60 credits as follows:

		Credits
ENGR 150	Introduction to Engineering	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 361	Engineering Technology Instrumentation	3
ET 399	Engineering Economy	3
ETC 122	Introduction to CAD for AEC I	3
ETC 353	Introduction to Surveying	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
or		
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

Directed Electives (3–9 credits)

The following courses, selected in consultation with an academic advisor, satisfy the directed technical electives requirement: ETC 472; ETC 476; ET 495; CM 155; CM 455; GEOG 378; CET 113; ENGR 490.

Additional Requirements (30 credits)

CET 236	Circuit Analysis	3
CHEM 161	General Chemistry I	3
CHEM 162	General Chemistry I Laboratory	1
CM 356	Materials of Construction	4
ET 240	Spreadsheet and Engineering Problem Solving Tools	3
or		
CS 213	Applications of Computing I	3
ETM 358	Applied Thermodynamics	3
MATH 119	Pre-Calculus with Trigonometry	4
or		
MATH 121	Pre-Calculus Mathematics	3
STAT 104	Elementary Statistics	3
ENG 403	Technical Writing	3
	Electives (Unrestricted)	3

MAJOR IN MANUFACTURING ENGINEERING TECHNOLOGY, BS

Accredited by TAC of ABET

Advisors: L. Lema, CMfgE (860-832-1821), E. Maydock (860-832-1818), and Z. Prusak (860-832-1826)

This major develops concepts employed by manufacturing industries to increase productivity, reduce cost, and efficiently use tools and machinery. Emphasis is on the areas of manufacturing, process planning, CAD/CAM, production techniques, and the application of mathematics and computers.

Major Requirements

46 credits as follows:

ENGR 150	Introduction to Engineering	3
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ET 251	Applied Mechanics I— Statics	3
ET 252	Applied Mechanics II— Dynamics	3
ET 357	Strength of Materials	3
ET 361	Engineering Technology Instrumentation	3
ET 399	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 Electives (3–4 credits)

The following courses, selected in consultation with an academic advisor, satisfy the directed technical electives requirement: ET 300; ET 495; ETM 358; ETM 367; ETM 454; ETM 460; ETM 463; ETM 467; ENGR 490.

Additional Requirements (44 credits)

CET 236	Circuit Analysis	3
CHEM 161	General Chemistry I	3
CHEM 162	General Chemistry I Laboratory	1
EMEC 324	Fluid Power Systems	3
ET 240	Spreadsheet and Engineering Problem Solving Tools	3
or		
CS 213	Applications of Computing I	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
MATH 119	Pre-calculus with Trigonometry	4
or		
MATH 121	Pre-calculus Mathematics	3
IT 464	Six Sigma Quality	3
IT 480	Robotics	3
STAT 104	Elementary Statistics	3
ENG 403	Technical Writing	3
	Electives (Unrestricted)	3

MAJOR IN MECHANICAL ENGINEERING TECHNOLOGY, BS

Accredited by TAC of ABET

Advisors: N. Al-Masoud (860-832-1825), P. Baumann (860-832-0086), A. Gates, P.E. (860-832-1823), and O. Powell, P.E. (860-832-1820)

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

58 credits as follows:

ENGR 150	Introduction to Engineering	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 361	Engineering Technology Instrumentation	3
ET 399	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 Electives (3–7 credits)

The following courses, selected in consultation with an academic advisor, satisfy the directed technical electives requirement: ET 495; ETM 360; ETM 423; ETM 460; ETM 461; ETM 463; ETM 468; MFG

226; EMEC 334; CET 113; ETC 454; ENGR 490.

Additional Requirements (32 credits)		
CET 236	Circuit Analysis	3
CHEM 161	General Chemistry I	3
CHEM 162	General Chemistry I—Laboratory	1
EMEC 324	Fluid Power Systems	3
ET 240	Spreadsheet and Engineering Problem Solving Tools	3
or		
CS 213	Applications of Computing I	3
MFG 121	Technical Drafting and CAD	3
MFG 216	Manufacturing Processes	3
MATH 119	Pre-calculus with Trigonometry	4
or		
MATH 121	Pre-Calculus Mathematics	3
STAT 104	Elementary Statistics	3
ENG 403	Technical Writing	3

Electives (Unrestricted) 3

MAJOR IN MECHANICAL ENGINEERING, BS

The BS in mechanical engineering is a program of study requiring 127–135 credits of undergraduate work, including a two-term senior project capstone requirement completed through oral and written reports. If desired, the candidate may also choose an appropriate sequence of elective courses for specialization in manufacturing or aerospace.

Required coursework can be grouped into four categories: General Education, major requirements, electives or specialization requirements, and additional requirements.

General Education (42–49 credits):	
Note: Distribution requirements are similar to the existing engineering technology General Education requirements.	
Study Area I (9 credits)	3 credits of literature; 3 credits of philosophy or fine arts; and 3 credits of literature, philosophy, or fine arts
Study Area II (6 credits)	3 credits of history and 3 credits of electives
Study Area III (3 credits)	3 credits of electives

Study Area IV (8 credits)	PHYS 125, PHYS 126
Skill Area I (6 credits)	ENG 110, COMM 140
Skill Area II (8 credits)	MATH 152, MATH 221
Skill Area III (0–6 credits)	
Skill Area IV (2–3 credits)	PE 144 or ENGR 150

Major Requirements

34–37 credits, as follows:

ENGR 150, 251, 252, 257; ME 216, 258, 345, 354, 367, 370, 454, 497, 498

Electives or Specialization Requirements (12 credits):

Electives—3 mechanical engineering electives, 1 technical elective
 Manufacturing—MFG 226, ME 360, ME 460, ME 466
 Aerospace—ME 403, ME 480, ME 483, ME 486

Additional Requirements (38 credits):
 CET 236; CHEM 161, 162, 163, 164; CS 151; ENG 403; ETM 260, 356, 467; MATH 222, 226, 355; and proof of 400 hours professional experience.

Manufacturing and Construction Management

Faculty

J. P. Kovel, P.E., *Chair*; S. R. Bennett; D. C. Dowty; M. Emiliani; R. J. Perreault; P. J. Resetarits, E. Sarisley, P.E.; R. Thamma (*Dept. phone 860-832-1830; Fax 860-832-1806; e-mail: Kovelj@ccsu.edu; website: www.technology.ccsu.edu*)

Department Overview

The Department of Manufacturing and Construction Management offers the following undergraduate BS degree and graduate MS degree programs:

- BS Construction Management
- BS Industrial Technology with specializations in
 - manufacturing
 - environmental and occupational safety
 - electro-mechanical technology
 - technology management

- MS Technology Management
- MS Construction Management

The Department of Manufacturing and Construction Management 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 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 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.

Programs

MAJOR IN CONSTRUCTION MANAGEMENT, BS (79 credits)

Accredited by ACCE

Advisors: S. R. Bennett (860-832-1835), J. Kovel (860-832-0192), R. J. Perreault (860-832-1836), E. Sarisley (860-832-1817)

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. This is a 130-credit program.

Major Requirements		Credits
CM 135	Construction Quantity Take-Off	4
CM 155	Construction Documents	3
CM 235	Building Construction Systems	3
CM 245	Heavy/Highway Construction Systems	3
CM 255	Construction Business Principles	3

CM 275	Introduction to MEP Systems	3
CM 325	Building Construction Estimating	4
CM 335	Construction Safety	3
CM 345	Heavy/Highway Construction Estimating	4
CM 353	Introduction to Surveying	4
CM 355	Construction Planning	4
CM 356	Materials of Construction	4
CM 435	Construction Superintendency	3
CM 455	Construction Project Management	4
CM 465	Construction Internship	3
ET 241	Applied Statics and Strength of Materials	3
ETC 405	Applied Structural Systems	3
Free Electives		(0–5)
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	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 240;
Study Area II	9 credits: history elective (3) and ECON 200 and 201;
Study Area III	6 credits, including PSY 112;
Study Area IV	8 credits: CHEM 161/162 and PHYS 121;
Skill Area 1	6 credits: ENG 110 and COMM 140;
Skill Area II	6 credits: STAT 200 and MATH 115;
Skill Area III	0–6 credits;
Skill Area IV	2–3 credits, including PE 144

Additional Requirements
Students must complete an exit interview during April–May of the year of graduation.

Note: A total of 130 credits are required for the degree.

MAJOR IN INDUSTRIAL TECHNOLOGY, BS (63 credits)
Accredited by NAIT

Major Requirements

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 310	Industrial Safety	3
IT 362	Leadership Skills for Supervisors	3
IT 401	Industrial Internship	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.

Specialization in Manufacturing*Advisors: M.L. Emiliani (860-832-3229)*

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 Introduction to Materials	3
MFG 121 Technical Drafting & CAD	3
MFG 216 Manufacturing Processes	3
MFG 226 Principles of CNC	3
MFG 236 Tool Design	3
MFG 496 Lean Manufacturing	3
CET 113 Intro. to Information Processing	3
EMEC 114 Intro. to Energy Processing	3
ETM 340 Geometric Dimensioning & Tolerancing	3
IT 360 Production Systems	3
IT 464 Six Sigma Quality	3
Technical & Management Electives	6
Total credits	39

Specialization in Environmental and Occupational Safety*Advisor: P. J. Resetarits (860-832-1834)*

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 Materials	3
MFG 121 Technical Drafting and CAD	3
CM 335 Construction Safety	3

IT 411 Industrial Hygiene	3
IT 414 Accident Investigation & Loss Control	3
IT 415 Fire Protection & Prevention	3
IT 456 HAZWHOPPER & Hazardous Material Management	3
Technical & Management Electives	12
Total Credits	39

Specialization in Electro-Mechanical Technology*Advisor: D. Dowty (860-832-1816); R. Thamma (860-832-3516)*

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 Materials	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.

Specialization in Technology Management*Advisors: M.L. Emiliani (860-832-3229), P. J. Resetarits (860-832-1834)*

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.

Note: A total of 122 credits are required for this degree.

Technology and Engineering Education (K-12)

Faculty

J. A. DeLaura, *Chair (860-832-1850)*, M. Dischino, P. Foster, D. Sianez, M. C. Vincenti (*Dept. phone 860-832-1850; Fax 860-832-1811; Website: www.technology.ccsu.edu*)

Department Overview

The Department of Technology and Engineering Education (K-12) offers the following programs of instruction:

- BS degree in technology and engineering education (K-12);
- Post baccalaureate certification program in technology education;
- MS degree programs in technology education; and
- Planned post master's—no certificate or degree.

Specific requirements for the planned fifth year, MS degree program and post master's

programs in technology education are stated in the graduate catalog.

The technology and engineering education (K–12) 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 and engineering education (K–12) 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 and engineering education (K–12) in Connecticut should contact Dr. James DeLaura (860-832-1850).

Program

MAJOR IN TECHNOLOGY AND ENGINEERING EDUCATION (K–12), BS (130 credits)

General Education Requirements

A total of 45–52 credits in General Education studies must be completed as part of all baccalaureate degree programs. See the General Education section in this catalog. Technology and engineering education (K–12) students are required to take ENG 110, COMM 115 or 140, PE 144, HIST 161 or 162, MATH 115 or 119, PSY 236, TE 110, PHYS 111, CHEM 111, and STAT 104. These courses count toward the overall General Education requirements.

Note: This major does not require a minor.

Technology and Engineering Education (K–12) Professional Requirements

Students are required to take TE 299, 399, and 400. 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 and Engineering Education (K–12) Technical Requirements

Technology and engineering education (K–12) majors are required to take MFG 118, MFG 121, ENGR 150, CET 223, ET 241, and TE 115, 155, 215, 221, 245, 310, 330, 417, and 498. Students may take additional technical courses, indicated by the TC prefix, approved by their technology and engineering education (K–12) advisor to fulfill their General Education requirements.

Professional Education Requirements

Technology and engineering education (K–12) majors are required to take SPED 315, EDSC 375, EDF 415, EDTE 316, EDSC 414, EDSC 415, and RDG 440.

Admission to the Professional Program

Students must make formal application for admission to the Professional Program of technology and engineering education (K–12) 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 the School 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 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 section in the catalog for additional information.

Cooperative Technology Programs

The 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 BS 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 College of Technology offers students:

- a clear pathway from a two-year college to a four-year university, without loss of credits or repeated coursework;
- 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; and
- direct admission into CCSU's School of Technology.

This program provides a direct entry to the School of Technology at CCSU without loss of credits or having to repeat course work. A student can complete a minimum 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.

The pathway coordinator has been identified at each CSU campus. For information, contact the associate dean of the School of Technology at CCSU.

BIOMOLECULAR SCIENCES PATHWAY/DEGREE PROGRAM

The Biomolecular Sciences Pathway, for entry into the University's undergraduate BS degree programs in biomolecular sciences and biochemistry, consists of coursework in mathematics and the natural sciences—biology, chemistry, and physics.

General Education Core

Arts/Humanities/Social Science/Behavioral Science/Communication:

English Language (Freshman Composition)	3
Philosophy or Fine Arts Electives	6
History	3
Psychology, Sociology, or Anthropology	3
Economics, Geography, or Political Science	6
Public Speaking	3
Technical Writing	3
<i>Subtotal (maximum)</i>	<i>27</i>

Science and Math Core:

General Chemistry I	4
General Physics I	4
Statistics	3
Trigonometry or Pre-Calculus	4
<i>Subtotal (minimum)</i>	<i>15</i>

Technology Core:

Microbiology	4
Directed Elective—General Biology I	4
Directed Elective—General Biology II	4
<i>Subtotal (minimum)</i>	<i>12</i>

Specialization Electives:	
Genetics	3
General Physics II	4
General Chemistry II	4
Molecular and Cellular Biology or Anatomy and Physiology I	4
<i>Subtotal</i>	15
Total Credits	69

* Major-specific electives appropriate for this pathway may be different for each community-technical college. Consult your College of Technology site co-coordinator for further information.

ENGINEERING SCIENCE PATHWAY/DEGREE PROGRAM

The Engineering Pathway, for entry into CCSU's School of Technology and the School of Engineering at the University of Connecticut, University of New Haven, Fairfield University, and University of Hartford, consists primarily of coursework in engineering, mathematics, and the sciences. In addition to the courses shown below, a grade average of B is required for continuation at UCONN's School of Engineering to earn a bachelor's degree. Credit is awarded for all courses in which a grade of C or above is earned.

Engineering Science Programs:

- Chemical engineering
- Civil engineering
- Computer science and engineering
- Electrical engineering
- Mechanical engineering
- Material engineering (as a double major with one of the above)
- Acoustic (University of Hartford only)
- Biomedical (University of Hartford only)

Engineering Science Curriculum

Arts/Humanities:

Composition	3
Fine Arts Elective	3
Philosophy and Ethical Analysis	3
Western Culture	3
Social Science Elective	3
<i>Subtotal</i>	15

Mathematics/Science:

Calculus I	3 or 4
Calculus II	3 or 4
Multivariable Calculus (Calculus III)	4
Differential Equations	4
General Chemistry I and II (with lab)	4/4
Engineering Physics I and II	4/4
<i>Subtotal (min.)</i>	30

Engineering Science:	
Introduction to Engineering or equivalent	3 or 4
Applied Mechanics I and II	3/3
Computer Programming	3
<i>Subtotal (min.)</i>	12
Major Specific Electives	6
Total Credits	63

Note: The engineering science curriculum may require additional coursework beyond the College of Technology. These extra credits can be acquired as part of the College of Technology consortia arrangement. Consult your College of Technology site co-coordinator for additional information.

TECHNOLOGY STUDIES PATHWAY/DEGREE PROGRAM

The Technology Studies Pathway prepares students for entry into the Department of Engineering 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 BS 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
- Computer

General Education Core

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Language (Freshman Composition)	3
Technical Writing	3
Public Speaking	3
Philosophy and Fine Arts	6
History	3
Economics, Geography, Political Science or History	6
Anthropology, Psychology or Sociology	3
<i>Subtotal (maximum)</i>	27

Science/Mathematics Core:

General Chemistry I with Laboratory	4
-------------------------------------	---

General or University Physics I with Lab	4
Statistics	3 or 4
Pre-calculus or Pre-calculus with Trigonometry	3 or 4
<i>Subtotal (maximum)</i>	16
Technology:	
Technical Drafting or CAD	3
Directed Elective	3
Directed Elective	3
<i>Subtotal</i>	9

Specialization Electives:

Physics II or General Physics II	4
Calculus I	4 or 5
Calculus II	4 or 5
Technical Elective—Dynamics	3
<i>Subtotal</i>	15–17

Total credits 65–69

TECHNOLOGY STUDIES PATHWAY/DEGREE PROGRAM

The Technology Studies Pathway, for entry into CCSU's School of Technology or Charter Oak State College, consists of courses which provide for a BS degree from Charter Oak State College, with a minor in technology, or from CCSU in one or more of the fields listed below. A minimum course grade of C and the credits described below are required for continuing at CCSU's School of Technology or at Charter Oak.

Technology

- Construction management
- Electronics technology

Industrial Technology Specializations

- Computer networking
- Electro-mechanical technology
- Environmental/occupational safety
- Electronics technology
- Graphics technology
- Manufacturing
- Technology management**

** Two-year associate degree plus two years of CCSU coursework. For more information, see www.technology.ccsu.edu.

General Education Core

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Language (Freshman Composition)	3
Public Speaking	3
Technical Writing	3
Philosophy and Fine Arts	6

History and ECON 201	6
Geography, Political Science or History	3
Psychology or Sociology	3
<i>Subtotal</i>	<i>27</i>

Natural Science/Mathematics:	
Intro. to Chemistry or General Chemistry I*	3 or 4
Intro. to Physics or General Physics I*	3 or 4
Statistics	3 or 4
Trigonometry or Pre-Calculus	3 or 4
<i>Subtotal</i>	<i>12-16</i>

Technology/Management Core:	
Technical Drafting/CAD	3
Directed Electives	6
<i>Subtotal</i>	<i>9</i>

Specialization Electives:	
Technical Electives	15
<i>Subtotal</i>	<i>15</i>

Total Credits 62-68

*General Chemistry I and General Physics I are required for construction management majors; and General Chemistry I and II are required for biomolecular sciences majors

Technology and Engineering 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.

General Education Core

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Language (Freshman Composition)	3
Public Speaking	3
Philosophy and Fine Arts	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>	<i>27</i>

Natural Science/Mathematics:	
Intro. to Chemistry	3
Intro. to Physics	3
Statistics	3-4
Pre-calculus with Trigonometry	4
<i>Subtotal</i>	<i>13-14</i>

Technology:	
Technical Drafting/CAD	3
Directed Electives	6
<i>Subtotal</i>	<i>9</i>

Specialization Electives:	
Material Science	3
Material Processing	3
Basic Electrical Circuits	3
Applied Statics and Strength of Materials	3
Directed Elective	3
<i>Subtotal</i>	<i>15</i>

Total Credits 64-65

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 provides the foundation or the initial two years of a BS degree.

The School of Technology at Central Connecticut State University offers the only programs of study in technology education, industrial technology, engineering, 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.

Course Offerings in Vocational-Technical Education

Office of Continuing Education (860-832-2256)

The course offerings in vocational-technical education are designed to prepare teachers of occupational subjects (skilled trades) and trade-related subjects for Connecticut's technical high schools, teachers of trade and industrial occupational subjects for comprehensive high schools, and health occupation educators for their state of Connecticut

Certification. All certification advisement is done at the Connecticut Technical Schools Central Office. Contact J. Gottlieb at (860-807-2230).

Suggested initial courses are:
VTE 113 Introduction to Teaching VTE
VTE 116 Teaching VTE
*SPED 315 Introduction to Educating Learners with Exceptionalities

Course suggestions for individuals seeking certification as a Teacher-Coordinator of Cooperative Work Education include:

VTE 415	Principles of Vocational Education
VTE 450	Principles and Organizations of Cooperative Work Education
VTE 455	Labor Market Trends and Student Job Readiness
*SPED 315	Introduction to Educating Learners with Exceptionalities

This certification is obtained directly from the Connecticut Department of Education Bureau of Educator Preparation, Certification, Support, and Assessment.

*VTE students, formally identified as such, are exempt from admission to the Professional Program.

Cooperative Education is an academic program that 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 CCSU'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; and
- 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 CCSU, 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 CCSU. 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:

- a place in the program;
- sufficient time for the co-op staff to develop appropriate co-op positions; and
- 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.

For interdisciplinary programs in *International and Area Studies*, see page 115 of the catalog.

African-American Studies

Faculty

F. Best, *Director* (860-832-2910 or 2817); African-American Studies Committee: D. Blitz, J. Buxton, G. Emeagwali, W. Brown Foster, B. Johnson, M. Mentzer, W. Perry, E. Phillips

Program Overview

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 Director is located in Marcus White 101. 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.

Program

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 nine 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, 352, 401, 420, 424; PSY 430; COMM 320 (African-American Speakers); IT 402 (Technology of African Americans).

American Studies

Faculty

R. Todd, *Coordinator* (860-832-2622); C. Doyle, R. Dunne, S. Gilmore, E. Langhorne, V. Martin, H. M. Prescott, D. Truly, M. Warshauer

Program Overview

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.

Program

MINOR IN AMERICAN STUDIES

18 credits, distributed as follows: ENG 211, HIST 162, 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 161, HIST 330, HIST 331, HIST 369*, HIST 465, HIST 469*
2. ANTH 352*, ANTH 422, CRM 110, GEOG 241, GEOG 330*, PS 331, PS 332, PS 430, PS 431, SOC 322*¹
3. ART 215*¹, ART 414, 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 162 and PS 110 and 6 credits from two of the three categories listed above.

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

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

Biochemistry

Faculty

G. Crundwell (860-832-2675), T.R. King (860-832-3560), *Co-coordinators*; J.V. Arena, T. Burkholder, M.A. Davis, B. L. Dobbs-McAuliffe, N.M. Glagovich, Z. He, B. Hoopengardner, C.A. Jones, M.A. Kapper, K.A. Martin-Troy, J.P. Mulrooney, C.L. Watson, B.L. Westcott, Jr.

Program Overview

The BS program in biochemistry provides a strong foundation in both molecular biology and chemistry and is based on faculty, facilities, and research resources in both the Department of Biomolecular Sciences and the Department of Chemistry and Biochemistry. In addition to in-class laboratory instruction, this interdepartmental program emphasizes independent student research carried out under the guidance of a faculty member from either department. This program is designed to prepare students for careers or advanced study in molecular biology, biochemistry, or health-related fields.

Program

MAJOR IN BIOCHEMISTRY, BS

(Non-teaching)

This program consists of 55–58 credits in the major, distributed as follows:

	Credits
Foundation Courses (33 credits):	
BMS 102 Introduction to Biomolecular Science	3
BMS 190 Introduction to Research I	0.5
BMS 201 Principles of Cell and Molecular Biology	4
BMS 290 Introduction to Research II	0.5
CHEM 161 General Chemistry I	3
CHEM 162 General Chemistry I Lab	1
CHEM 163 General Chemistry II	3
CHEM 164 General Chemistry II Lab	1
CHEM 301 Analytical Chemistry	4
CHEM 210 Organic Chemistry I	3
CHEM 211 Organic Chemistry I Laboratory	1
CHEM 212 Organic Chemistry II	3
CHEM 213 Organic Chemistry II Laboratory	1
CHEM 316 Spectrometric Identification of Organic Compounds	3
CHEM 320 Biophysical Chemistry	3
Directed Electives (13–16 credits):	
One course chosen from:	
BMS 306 Genetics	4
BMS 311 Cell Biology	4
BMS 316 Microbiology	4
And 6–8 additional credits chosen from the 300-level BMS courses listed above or from the following:	
BMS 415 Advanced Exploration in Cell, Molecular, and Physiological Biology	3
BMS 490 Topics in Biomolecular Sciences	3
BMS 495 Capstone in Molecular Biology	4
BIO 416 Immunology	3
And 3–4 additional credits in chemistry chosen from:	
CHEM 402 Instrumental Methods in Analytical Chemistry	4
CHEM 406 Environmental Chemistry	3
CHEM 456 Toxicology	3
CHEM 459 Bioinorganic Chemistry	3
CHEM 485 Topics in Chemistry	3

Research (2 credits):

Two credits of research chosen from any of BMS 390, 491, CHEM 238, or 438 (although a two-semester sequence of BMS 390 and 491, or CHEM 238 and 438 is strongly encouraged). BMS 391 (Internship in biomolecular sciences, 1–3 credits) may be

used as a substitution for part or all of the independent research requirement.

Capstone Courses (7 credits):

Both of the following courses, one to be taken with the accompanying lab:
 BMS 496/497 Biosynthesis, Bioenergetics, and Metabolic Regulation/Laboratory 3–4
 CHEM 354/455 Biochemistry/Laboratory 3–4

Related Requirements (11–14 credits):

In addition to the 55–58 credits in the major, the student must take MATH 124 (or both MATH 115 and 125) or MATH 152; and PHYS 121 and 122; and maintain a Student Portfolio (see below). These related requirement courses may also be counted to fulfill appropriate portions of the student's General Education program. No minor is required for this major.

Portfolio Requirement

The portfolio requirement will be formally introduced to students during the BMS 190 and 290 introductory courses. Minimally, the student portfolio must include a current resume, a current Student Graduation Evaluation or transcript, a planned program of academic study, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all completed independent study projects, and writing samples from one or more upper-level courses in the major. To fulfill the portfolio requirement, the student portfolio must be reviewed with one or more faculty members:

- as a course requirement in BMS 190 and 290;
- as a required component of independent student research projects; and
- prior to graduation, as evidenced by submission of a Portfolio Requirement Completed form to the chair of the Biomolecular Sciences Department.

500-Level Course Options

Undergraduate students with at least 90 credits and a CGPA of 3.00 or higher may (with the approval of the advisor, instructor, appropriate department chair and dean, and with appropriate prerequisites) substitute either of the following 500-level BMS courses for BMS

courses listed in the Directed Elective portion of the major program, and the following CHEM course in place of one of the 400-level CHEM courses listed in the Directed Elective portion of the major program:

BMS 562	Developmental Biology	3
BMS 570	Advanced Genetics	3
CHEM 551	Topics in Biochemistry	3

Gerontology

C. Andreoletti (860-832-1646) and M. Levvis (860-832-0184), *Co-Chairs*;
 M. Fallon, C. Mate-Kole, E. O'Neill, P. Osei, C. Watson

Program Overview

The gerontology minor is an interdisciplinary program designed to provide students with a comprehensive background in different issues related to adult development and aging in order to prepare them to serve the aging population in various capacities. Students are encouraged to visit the gerontology minor website at www.psychology.ccsu.edu/gerontology for more information about the program and to learn more about career opportunities in the field of aging.

Program

MINOR IN GERONTOLOGY

18 credits as follows: PSY 364, 458; NRSE 342; one three-hour practicum chosen from NRSE 498, PSY 496, EXS 450 or 470, BIO 391, BMS 391; and 6 credits of electives chosen from NRSE 490, EXS 215, PSY 380, SOC 340, SOC 440, BIO 401.

Hospitality and Tourism Studies

Faculty

D. Truly, *Director* (860-832-2797);
 R. Benfield, D. Dornan, B. Greenfield,
 K. Koh, D. Miller, W. Perry, T. Rickard,
 P. Root

Program Overview

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 unique course of study is designed as an

interdisciplinary program that incorporates courses from the School of Arts and Sciences and the School of Business, leading to a BS degree in hospitality and tourism. Tourism Hospitality Studies (THS) courses are being added to the program as the program grows, and students are encouraged to visit the program website at <http://www.ccsu.edu/tourism> for further information and updates on our expanding tourism curriculum.

Program

MAJOR IN HOSPITALITY AND TOURISM, BS

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 tourism studies track or the hospitality studies/transfer track. Note: Students may not exceed 24 credits in business courses.

Foundation Courses (21 credits):

AC 211; GEOG 120, 290; FIN 295 or LAW 250; MGT 295; MIS 201; MKT 295

Tourism/Hospitality Core Courses

(15 credits):

GEOG 450, 454; THS 300, 410; one 400-level THS elective

Tourism Studies Track

Students must take 18 credits of electives, selected in consultation with a faculty advisor.

Recommended courses include: ENG 382; GEOG 451, 453, 455; MKT 359; THS 430, 435, 450, 455, 490.

Students may also choose a maximum of two courses from the following list of Regional Geography courses: GEOG 330, 434, 435, 436, 437, 439, 446, 448, 452.

or

Hospitality Studies/Transfer Track

18 credits of courses, approved by a faculty advisor, taken at another institution.

No minor is required for this major.

Internet and Multimedia Studies

Faculty

M. Triebwasser, *Program Coordinator* (Phone: 860-832-2970); S. Adair, J. Calvert, M. Gendron, J. Harmon, R. McCarthy, K. Ritzenhoff, B. Sponder

Program Overview

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 website 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.

Program

MINOR IN INTERNET AND MULTIMEDIA STUDIES

This program is not currently accepting applications.

18 credits, six of which must be at the 300 or 400 level, distributed as follows:

Core (6 credits):

IMS 110 and IMS 210.

Human Interactions in Cyberspace (3 credits):

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.

Methodologies in Internet and Multimedia Development (3 credits.):

Student will choose one course from the following (or an approved substitute): CET 113, COMM 330, CS 110, CS 151, DES 100, EDT 490, GEOG 378, MIS 201, MUS 112.

Advanced Study (3 credits.):

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.

Capstone Experience (3 credits.):

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

Faculty

C. Austad (Phone: 860-832-3101), D. Blitz (860-832-2916) (*coordinators*). Peace Studies Committee: M. Alewitz, A. Antar, W. Brown-Foster, G. El-Eid, N. Mezvinsky, N. Sadanand

Program Overview

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.

Program

MINOR IN PEACE STUDIES

18 credits as follows:

PES 110, PES 410, and 12 credits from any of the following: ART 270, HIST 291, HIST 474, PES 111, PES 210, PES 310, PHIL 345, PS 235, PS 345, PS 380, PSY 202.

Religious Studies

Faculty

J. McKeon (Philosophy), *Advisor*; F. Best (Philosophy), G. Gigliotti (English), A. Adams (Anthropology), N. Mezvinsky (History) (Phone 860-832-2915)

Program

MINOR IN RELIGIOUS STUDIES

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

- Comparative Religion (REL 110);
- Religious Texts (ENG 360, ENG 361);
- Historical/Social Science (HIST 277, 278, 292, 435, 436, 441, 469; ANTH 240); and

- Philosophical/Religious Thought (PHIL 232, 250, 255, 275, 376, 492; REL 105, 250, 256, 257, 361, 492). ENG 214, ENG 448, ENG 458, ENG 488, HUM 250); social (COMM 495, PSY 498); and WGSS 390 by topic.

Women, Gender and Sexuality Studies

Faculty

Heather Munro Prescott, *Coordinator* (860-832-2809); *Advisory Committee:*

E. Aaronsohn, A. E. Adams, J. DiPlacido, C. Doyle, S. Gilmore, E. Godway, J. Greenbaum, K. Hermes, E. Kaminski, P. LaPuerta, K. Larsen, L. Levine, P. Lisi, M. Mentzer, A. Morales, A. Moran, L. Perdue, C. Pope, K. Ritzenhoff, S. Slaga, K. Sugg, G. Sunshine, L. Uribe, C. L. White

Program Overview

Women, Gender, and Sexuality Studies is an interdisciplinary program concerned with issues that affect people due to their gender or sexual identity. The minor allows students to take courses, in various departments, that will enrich their lives as they explore topics, such as the meanings of femininity and masculinity, sexual orientation, gender roles in society, sex, feminism, and global gender issues.

Program

MINOR IN WOMEN, GENDER, AND SEXUALITY STUDIES

18 credits with at least nine credits on the 300–400 level. Students whose needs are not met by available courses may take up to three credits of independent study (WGSS 469), three credits of internship (WGSS 430), and three credits of WGSS 390 Topics in Women, Gender, and Sexuality Studies, pending approval of the appropriate department chair and the women, gender, and sexuality studies coordinator. At least one course (three credits) must be taken from three of the four areas listed; courses, which may also have WGSS designators, include WGSS 200, and 15 credits from theoretical (PHIL 222, WGSS 400), historical (ISCI 118, HIST 330, HIST 331, HIST 335), cultural (ANTH 350, COMM 435, ENG 215), and social (PS 241, PSY 448, PSY 390, SOC 240, SOC 350, SOC 445).

The following courses will apply as approved by the women, gender, and sexuality studies advisory committee: theoretical (PHIL 100, PHIL 382); cultural (ART 490,

CCSU offers an interdisciplinary degree program in international studies, with specializations leading to the BA 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 (860-832-2126). Students planning a minor in a region, or those interested in a region as part of the BA major program, should contact the coordinator of the appropriate area studies program.

Program

MAJOR IN INTERNATIONAL STUDIES, BA

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 Department of Modern Languages.

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, international studies 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

Faculty

C. C. Mate-Kole, *Director, Center for Africana Studies, and Coordinator, African Studies Program* (860-832-3105); F. Best, W. Brown Foster, J. Buxton, C. Carter-Lowery, T. Darko, G. Emeagwali, P. English, S. Ifunwa-Ndibe, K. Harris, M. Howell, S. Jones, P. Kyem, P. LeMaire, A. Moemeka, E. Newman-Phillips, S. Odesina, P. Osei, W. Perry, T. Rickard, S. Sogunro

Program Overview

The African Studies program promotes an interdisciplinary approach to the study of Africa through a range of programs, activities, and courses. Students are exposed to Africa, its environment, the people, and the various historical, social, political, cultural, and economic aspects of the continent. The program has established links with local, regional, and international educators and institutions worldwide. The program provides students with opportunities to study in institutions in Africa.

Programs

MAJOR IN AFRICAN STUDIES, BA

Students wishing to construct a major program in African studies may do so using the framework provided by the BA in international studies.

MINOR IN AFRICAN STUDIES

18 credits including HIST 375, 376, PS 421, 434, and 6 credits of electives as approved by the program coordinator.

East Asian Studies

Faculty

M. Jones, *Coordinator* (860-832-2819); Y. Ju, K. H. Kim, C. S. Lien, J. McKeon, P. Petterson, X. Shen, S. Tomoda

Programs

MAJOR IN EAST ASIAN STUDIES, BA

Students wishing to construct a major program in East Asian studies may do so using the framework provided by the BA in international studies.

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.

European Union/ West European Studies

Faculty

A. Morales, *Coordinator* (860-832-2887); L. Auld, R. Benfield, M. Charkiewicz, D. Engwall, P. Lapuerta, M. Passaro, C. Pesca, L. Petit, P. Petterson, T. Rickard, K. Ritzenhoff, L. Uribe

Programs

MAJOR IN EUROPEAN UNION/WEST EUROPEAN STUDIES, BA

Students wishing to construct a major program in European Union/West European studies may do so using the framework provided by the BA in international studies.

MINOR IN EUROPEAN UNION/WEST EUROPEAN STUDIES

18 credits including GEOG 452, PS 336, competency at the intermediate level (126) in a West European language other than English, and 6 additional credits of language, culture, or other suitable regional courses, in consultation with an advisor. Students achieving the language competency with fewer than 6 credits will be required to take additional directed electives, in consultation with an advisor, to bring the total number of credits taken for the minor to 18.

Latin American Studies

Faculty

M. A. Mahony and C. Pope, *Co-coordinators* (860-832-0119, mahonym@ccsu.edu; 860-832-2799); A. Adams, W. Brown-Foster, G. Caliendo-Reed, G. Cueto, J. C. del Alma, F. Donis, D. Dornan, R. Fernandez, F. Gagliardi, V. Garcia, A. Garcia-Lozada (*Director of the Center for Caribbean and Latin American Studies*), P. Iannone, C. Liard-Muriente, G. Mejía, S. Mendez-Mendez, A. Morales, T. Rickard, M. Salinas, K. Sugg, L. Uribe

Program Overview

The program offers a broad and flexible interdisciplinary approach designed to provide a comprehensive understanding of Latin America, providing a unique opportunity for students to transcend disciplinary limits and master an integrated view of the social, geographical, cultural, economic, political, and historical forces shaping this major region of the world.

A brochure describing the programs in depth is available from the coordinators.

Programs

MAJOR IN LATIN AMERICAN STUDIES, BA

Students may specialize in Latin America within the international studies major.

MINOR IN LATIN AMERICAN STUDIES

18 credits, including GEOG 434, 436; HIST 281, 282; and 6 credits from the following: ANTH 428; ECON 435;

GEOG 459*; HIST 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, PS 420, SPAN 316. Note prerequisites where applicable.

Students selecting these minors must register with the program Coordinator.

Middle Eastern Studies

Faculty

A. Antar, *Coordinator* (860-832-2932); F. Abdollahzadeh, N. Al-Masoud, A. Ayalon, K. Beyard, A. Cannella, G. El-Eid, G. Emeagwali, F. Farahmand, J. McKeon, N. Mezvinsky, T. Rickard, N. Sadanand, M. Salinas, L. Zidani-Eroglu

Programs

MAJOR IN MIDDLE EASTERN STUDIES, BA

Students wishing to construct a major program in Middle Eastern studies may do so using the framework provided by the BA in international studies.

MINOR IN MIDDLE EASTERN STUDIES

18 credits, including HIST 291, PS 434, 439, and 12 credits from HIST 292, 474, PS 339, 439, 491.

Slavic/East European Studies

Faculty

R. Benfield, *Coordinator* (860-832-2879); J. Bergman, M. Biskupski, M. Erdmans, I. Gotchev, P. Karpuk, D. Kideckel, E. Wolynska

MAJOR IN RUSSIAN STUDIES, BA

Students wishing to construct a major program in Russian studies may do so using the framework provided by the BA in international studies. For a sample program, please contact the coordinator.

Programs

MAJOR IN SLAVIC/EAST EUROPEAN STUDIES, BA

Students wishing to construct a major program in Slavic and East European studies may do so using the framework provided by the BA in international studies. For a sample program, please contact the coordinator.

MINOR IN SLAVIC/EAST EUROPEAN STUDIES

18 credits, including at least 9 selected from the following: ANTH 426, GEOG 448, HIST 348, 356, 379, 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).

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 BS or BA 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. Drawing from a strong curriculum and professionally

degreed faculty, each session's courses are tailored to meet the needs of the students enrolled at that time. Classes are small, so teachers get to know and offer support and encouragement to each student individually. 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 1260000, 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: Honors Thesis
- 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 860-832-2938 or e-mail Larsen@ccsu.edu. Further information on the program is available at its website: <http://www.ccsu.edu/honors>.

OnlineCCSU

OnlineCCSU is the virtual classroom of Central Connecticut State University. Responding to the emerging trends of learning-on-demand, CCSU offers courses that traditionally were only available in the classroom.

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, *OnlineCCSU* 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.

OnlineCCSU offers both graduate and undergraduate courses, and new courses are added every semester. CCSU faculty, who design and teach the courses, are at the core of this distinctive learner-centered program. 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 CCSU) 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 *OnlineCCSU* courses, visit www.ccsu.edu/onlineCCSU.

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 pre-law advisor, Antonia Moran, political science, and also from Kathleen Bantley, criminal justice; Katherine Hermes, history; Brian O'Connell, philosophy and computer science; and Donna Sims, School of Business, all of whom have law degrees.

Pre-Health/Pre-Medical

A Pre-Health Professional Advisory Committee is available to assist students interested in preparing for careers in medicine, dentistry, veterinary medicine, optometry, and related fields in the health sciences for which undergraduate training is required prior to admission to other institutions. The Pre-Health Professional Advisory Committee consists of faculty

members from the departments of biology, biomolecular sciences, chemistry and biochemistry, physics, and psychology.

Students interested in pre-health Professional Programs should consult Dr. Peter Osei, program coordinator for the health professions, Department of Biology, NC 339 (860-832-2657), and Dr. Cheryl Watson, chair of the Pre-Health Professional Advisory Committee, Department of Biomolecular Sciences, NC 344 (860-832-2649). Additional information is available at <http://www.prehealth.ccsu.edu>.

Cooperative Programs

Also see School of Technology and School of Arts and Sciences sections.

CCSU/Tunxis Community College Honors Computer Science/Mathematics Program

Under the provisions of a signed articulation agreement with Central Connecticut State University, graduates of Tunxis Community College who have successfully completed this program with a grade point average of 2.70 or better may enter the University, as third-year students, into the School of Arts and Sciences,* applying their credits toward one of these degree programs:

- BS in Mathematics for Secondary Teaching Certification
- BS in Computer Science Honors
- BS in Computer Science Alternative

For more information, contact Professor Art Adolfsen, Tunxis Community College (860-255-3620), CCSU Professor Bradley Kjell, Chair, Department of Computer Science (860-832-2717), or CCSU Professor Timothy V. Craine, Chair, Department of Mathematical Sciences (860-832-2854).

*subject to space availability and provided the student completes the required admission process

State College/University Reciprocity Program

Under certain conditions, CCSU students may take courses at another state college or university without paying additional tuition. Only courses not offered at CCSU may be taken, and courses must be applicable to a student's degree. Students pay for books and any course or lab fees.

Admission to the courses will be on a space-available basis within pre-established class limits. To be eligible, CCSU students must be Connecticut residents and have paid maximum tuition and fees for full-time study. A dean and/or department chair may need to verify a student's qualifications for a course.

Interested students should contact the Registrar's Office for more 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, Goodwin College, Hartford Seminary, Saint Joseph College, Trinity College, University of Connecticut-Hartford, Saint Thomas Seminary, and University of Hartford. Use of consortium courses for meeting General Education requirements will be considered on a case-by-case basis.

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. Courses taken through the Hartford Consortium are considered institutional credit; therefore, the grades appear on the transcript, affect the GPA, and apply towards residency graduation requirements and graduation honors.

Students may obtain a brochure containing eligible courses and cross-registration forms at the CCSU Registrar's Office. For more information, visit the consortium web site at www.hartnet.org/hche.

Reserve Officers Training Corps (ROTC)

Army and Air Force ROTC programs are offered to CCSU students at the University of Connecticut's main campus at Storrs. Class instruction occurs on the UConn campus, however the courses are considered to be those of Central Connecticut State University. Registration is done in the same manner as other CCSU courses, via the web. Final grades will appear on the CCSU transcript and are included in the calculation of the CCSU GPA. Upon completion of course work at the end of each semester, ROTC students need to request that an official tran-

script be sent from UConn to the CCSU Office of the Registrar, to the attention of the associate registrar.

AIR FORCE RESERVE OFFICER TRAINING CORPS (AFROTC)

Air Force ROTC is offered to Central Connecticut State University students at the University of Connecticut's main campus at Storrs.

Central Connecticut State University students may pursue a commission as an officer in the United States Air Force. The 100- and 200-level courses carry no military obligation and are open to all students. The 200-level courses have prerequisites and require permission of the appropriate instructor.

Scholarships are available for qualified students. These scholarships pay up to full tuition and fees, plus tax-free stipends of \$250 to \$400 per month, and \$600 per year toward books.

The student selects either a four-year or two-year ROTC sequence of courses taught by Air Force officers at the University of Connecticut. Students commute to Storrs, CT, for classes on Thursday afternoons.

Interested students should contact the Air Force ROTC office at 860-486-2224 or visit the website at www.airforce.uconn.edu.

For more information, contact AFROTC Det 115, 362 Fairfield Road U-2081, Storrs, CT 06269-2081.

ARMY ROTC

CCSU students may pursue commissions in the Active, Reserve, or Guard forces of the Army. Army ROTC classes are offered at the UConn campus, located in Storrs, and Sacred Heart University, located in Fairfield. Army ROTC trains college students to become leaders and Army officers and teaches the leadership and management skills needed to become leaders in the civilian sector and the skills to be a quality officer. Scholarships are available year round and in some cases include room and board.

ROTC is a four-year program. The first two years consist of one-credit military science classes. These classes are open to all students and incur no military obligation for the student. Junior and senior cadets, upon contracting, take the three-credit class/lab once a week and get paid \$350 to \$400 per month. Students who complete the program can be commissioned as a Second Lieutenant in the Active Army, National Guard, or Army Reserves.

Two-, three-, and four-year ROTC scholarships are available to qualified students through an Order of Merit process. Students compete for four-year scholarships at the national level; information can be found at www.armyrotc.com/scholarships/fouryear/. Two- and three-year scholarships are campus-based, which allows students to compete with others in the ROTC program, based on performance and need. ROTC scholarships cover all tuition and fees up to \$20,000 a year. Add to that the monthly stipend while in school and \$900 a year for books, and students can receive up to \$24,050 a year, tax-free for their schooling.

Students who are active members of the Connecticut Army National Guard attend any state school 100% tuition free. Members of the Army Reserve get a partial tuition waiver. Guard/Reserve soldiers train one weekend a month and two weeks a year. They get paid for training and also receive the G.I. Bill (about \$309 a month). Soldiers in the National Guard/Reserve who have completed Basic Training do not have to take the first two years of ROTC and can begin the program their junior year as a Simultaneous Membership Program (SMP) cadet. SMP cadets get paid as an E-5, wear cadet rank, and are treated as an officer in training. E-5 pay, the G.I. Bill, and the tax-free stipend adds up to between \$650 and \$800 a month. SMP cadets who decide to stay in the Guard or Reserve after commissioning may apply to receive a Guaranteed Reserve Forces Duty (GRFD) scholarship contract of two, two and a half, or three years. Historically, UConn receives five to six GRFD scholarships each year.

For more information on ROTC, call Major Glenn A. Colby at 860-208-0837, email: glenn.colby@uconn.edu, or visit www.armyrotc.uconn.edu.

AIR FORCE ROTC COURSES

AIRF 113/114. The Air Force Today I and II. One credit. One hour lecture; 2 hours laboratory.

Study of the role of the Air Force in the contemporary world: the function of strategic offensive and defensive forces, general purpose forces, and related aerospace support forces. The citizen-soldier concept, the relationship between war and morality, and human rights. The improvement of student communication skills.

AIRF 123/124. Development of Air Power I and II. One credit. One hour lecture; 2 hours laboratory.

Development of air power from balloons and dirigibles through the sophisticated weaponry used today. Air power history, including military and non-military developments, especially post-World War I and pre- and post-World War II. Philosophy and nature of war.

AIRF 235/236. Air Force Management and Leadership I and II. Three credits. Three hours lecture; 2 hours laboratory.

The individual as a manager in the Air Force. Motivational and behavioral processes, leadership, communication, and group dynamics as a foundation for the development of the junior officer's professional skills.

AIRF 245/246. National Security Forces in Contemporary American Society I and II. Three credits. Three hours lecture; 2 hours laboratory.

The Armed Forces as an integral element of society. The broad range of U.S. civil-military relations and the environmental context in which defense policy is formulated and implemented.

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 3-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 3-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 3-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 3-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.*

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, Italy, Brazil, Hungary, Scotland, 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 a competitive basis. With proper planning, all course work earned overseas will apply toward graduation requirements.

To plan a study abroad program, contact the international education coordinator in the George R. Muirhead Center for International Education, Barnard Hall, Room 138 (860-832-2043). 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 website <http://www.ccsu.edu/cie>.

Students may also take an individual course taught abroad by a CCSU professor during Winter or Summer Session or Spring Break. Students may choose from more than two 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.

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. See page 51.

Note: The content of this catalog is provided for the information of the student. It is accurate at the time of printing but subject to change from time to time as deemed appropriate by Central Connecticut State University in order to fulfill its role and mission or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and without obligation and, unless specified otherwise, are effective when made.

ACCOUNTING

Note: Enrollment in 300- and 400-level accounting courses requires admission to the School of Business or permission of the department chair.

- | | | | |
|--|--|---|--|
| 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. | | | |
| AC 212 | Introduction to Managerial Accounting | 3 | |
| Prereq.: AC 211 (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. | | | |
| AC 300 | Foundations of Accounting: The Profession, Processes & Analysis | 3 | |
| Prereq.: FIN 295 (may be taken concurrently), and AC 212 (both with C- or higher). Develop understanding of accounting profession and role in society. Review of the accounting cycle and analysis of enterprise economic resources, obligations, revenues, and expenses, including: methods of measurement and recognition; the conceptual framework; and authoritative standards. Analysis of financial statements, risk, and role of internal controls. Emphasis on research, measurement and reporting, and problem solving and decision making. | | | |
| AC 301 | Cost Management Systems | 3 | |
| Prereq.: AC 300 (may be taken concurrently) and STAT 200 (both with 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 assets. | | | |
| AC 313 | Financial Reporting II | 3 | |
| Prereq.: AC 312 (C- or higher) taken within five years. Designed to further prepare students for professional competency. Topics include accounting for liabilities, stock- | | | |
| | holders' equity, investments, income taxes, employee compensation, post-employment benefits, leases, cash flows, changes and errors, and disclosure. | | |
| AC 340 | Accounting Information Systems | 3 | |
| Prereq.: AC 312 (may be taken concurrently) and AC 300 (both with C- or higher). Developing data models of evolving business processes and implementing accounting information systems based on the semantic data models. Analysis, development and documentation of internal controls for organizational systems are also emphasized. | | | |
| AC 401 | Introduction to Income Taxation | 3 | |
| Prereq.: LAW 250 and AC 212 (both with 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 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. Irregular. | | | |
| AC 407 | Advanced Accounting | 3 | |
| Prereq.: AC 313 (C- or higher); for graduate students, permission of department chair. Accounting for partnerships and branches; business combinations and consolidated financial statements; foreign currency transactions and translation of foreign currency financial statements. | | | |
| AC 420 | Managerial Analysis & Cost Control | 3 | |
| Prereq.: AC 301 (C- or higher). Advanced topics in managerial and cost accounting. Emphasis on the use of accounting information for management decision making and cost management in traditional and lean business enterprises. Cases and problems. Fall. | | | |
| AC 430 | Accounting for Non-Profit Institutions | 3 | |
| Prereq.: AC 313 (C- or higher); for graduate students, permission of 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 (may be taken concurrently), AC 340, STAT 201 (all with C- or higher); for graduate students, permission of chair. Introduction to the audit process and reporting using PCAOB and ASB auditing standards. Topics include demand for audit and other assurance service, legal and regulatory environment, professional ethics, and rules of conduct. | | | |
| AC 455 | Internal Auditing | 3 | |
| Prereq.: AC 313 (may be taken concurrently), AC 340, STAT 201 (all with 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

AFAM 200 Dimensions of Diversity and Inequality 3
Cross listed with ANTH 200. See ANTH 200 for a detailed description.

AFAM 212 African-American Literature 3
Cross listed with ENG 212. See ENG 212 for a detailed description.

AFAM 345 Modern African-American Literature 3
Cross listed with ENG 345 and AMS 345. See ENG 345 for a detailed description.

AFAM 424 Peoples and Cultures of Africa 3
Cross listed with ANTH 424. See ANTH 424 for a detailed description. Fall. (E)

AFAM 469 African Americans in the 20th-Century 3
Prereq.: HIST 301 or 310 or permission of instructor. Cross listed with HIST 469. See HIST 469 for a detailed description. Fall. (O)

AMERICAN STUDIES

AMS 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 322 Race and Ethnic Relations 3
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 332 Civil Liberties 3
Prereq.: PS 104 or PS 110. Constitutional safeguards of liberty and property. Special attention to privileges and immunities, equality and civil rights.

AMS 341 The American Renaissance 3
Prose and poetry of American romantic authors in the 19th century. Special emphasis on Poe, Melville, Thoreau, Emerson, Whitman; contemporary ideologies.

AMS 345 Modern African-American Literature 3
Survey of selected writers, beginning with the Harlem Renaissance. Cross listed with ENG 345 and AFAM 345.

AMS 422 Native Americans 3
Native American cultures, their distinct life ways and contemporary problems. Fall. [I]

AMS 430 The American Presidency 3
Prereq.: PS 104, 110 or permission of instructor Office of the President and place in the political system, colonial antecedents and modern counterparts. Emphasis on the president's functional and institutional development, contemporary role in politics and public policy, and interplay between man and office. Spring.

AMS 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 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 [I]

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. Cross listed with AFAM 200. 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 230 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 239 Work and Culture 3
A cross-cultural exploration of humanity as creator A cross-cultural exploration of humanity as creator invention, and the beliefs and values surrounding them in various cultures. Spring. (E) [I]
- ANTH 240 The Supernatural 3
Formerly ANTH 440. 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. Explores culturally diverse forms of spirituality and mythology, from a variety of anthropological perspectives. Fall. Study Area III [I]
- ANTH 245 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 270 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 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.
- 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 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 335 Theories of Human Evolution and Behavior 3
Prereq. ANTH 140 or 160 or permission of instructor. Formerly ANTH 465. 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. Fall. (E)
- ANTH 340 Theories of Culture 3
Prereq.: ANTH 140 or 170 or permission of instructor. Formerly ANTH 430. 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 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. No credit will be given to students with credit for WS or WGSS 350. Spring. [I]
- 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)
- 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 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 401 City Life & Culture 3
Formerly ANTH 300. 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)
- ANTH 416 Archaeology of Africa 3
Formerly ANTH 316. Prereq.: ANTH 150 or permission of instructor. Examines pre-historic and historic period of Africa via archaeological, documentary, and oral historical data. Spring. (O) [I]
- ANTH 418 New England Prehistory 3
Prereq.: ANTH 140 or 150 or permission of instructor. Formerly ANTH 318. 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 University. Spring. (E)
- ANTH 420 African Diaspora Archaeology 3
Formerly ANTH 320. Prereq.: ANTH 150 or permission of instructor. 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 422 Native Americans 3
Native American cultures, their distinct life ways and contemporary problems. Fall. [I]
- 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 425 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. Cross listed with AFAM 425. Fall. (O)

- 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 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 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.
- ANTH 475 Topics in Anthropology 3
Examination of selected topics in Anthropology. May be repeated under different topics up to 6 credits. 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 architecture, painting, and sculpture. Credit not given to students who have taken ART 112 or ART 113. Study Area I [I]
- ART 112 History of Art I 3
A survey of paintings, sculpture, and architecture from prehistoric times to the Renaissance. Study Area I [I]
- ART 113 History of 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 [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
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
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]
- ART 216 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. Study Area I [I]
- ART 218 Renaissance Art 3
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
Photography as an art form of aesthetic choice is emphasized of aesthetic choices is emphasized. Explore creativity within the context of digital photography as a means of self-expression. Digital camera is required for students. 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
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.
- 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.
- ART 303 Practicum in Art Education I 2
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 332 Life Drawing I 3
Formerly ART 431. Prereq.: ART 230. 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 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 hand-cut 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.
- ART 348 Video Art I 3
Prereq.: A successful portfolio review is required before enrollment. 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.
- ART 349 New Media Arts I 3
Prereq.: ART 347 and ART 348, 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.
- 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.: ART 303 and admission to the Professional Program in teacher education. 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.
- 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.
- 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.
- 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.
- 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 432 Life Drawing II 3
Prereq.: ART 332 (formerly ART 431) or permission of instructor. A successful portfolio review is required before enrollment. Continuation of ART 332 (formerly 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.
- ART 449 New 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.
- 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 Lab 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. No credit given to those with credit for BMS 111. Study Area IV
- BIO 113 Laboratory Experience in Biology 1
Prereq.: BIO 100 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
- 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 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
- 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 differentia-

tion, 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

BIO 132 **Introductory Ecology** 3
Introductory course that introduces students to ecological processes structuring the biosphere and our impacts on it. Emphasis will be placed on current local and global environmental issues and ways of making human lifestyles sustainable. Three lectures per week. Cannot be used to meet requirements for major or minor in Biology. Study Area IV [I]

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 170 **Introductory Field Studies in Biology** 1 TO 4
Prereq.: Permission of instructor (interview with instructor required for courses outside of U.S.). Travel-based field biology experience. Non-major students will learn to identify biological questions, design and conduct observations and/or experiments, and analyze their data and reach valid conclusions. May be repeated at different field sites. Irregular. Study Area IV

BIO 200 **General Biology III** 4
Prereq.: BIO 121 and BIO 122. A survey of prokaryotic and eukaryotic cells as classified into bacteria, archaea, and eukarya domains with an overview of structure and function. Special attention to the evolution of tissues, cells, and organelles. Also, a review of animal behavior and basic ecological principles. Three hours of lecture and one, three-hour laboratory per week.

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. Cannot be used to meet requirements for major in Biology. Study Area IV

BIO 230 **Natural History** 2
Prereq.: BIO 121; or BIO 132 and 133; or BIO/BMS 111 and 113. Consideration of local wild species and their range, habitats, natural history traits, and evolutionary history. Two, one-hour lecture meetings per week. Noteworthy field and library work expected outside of class time. Fall. Study Area IV

BIO 290 **Biology Research Experience I** 1
Prereq.: MATH 101 (or math placement exam) and BIO 122. Introduction to research design and the analysis, interpretation, and presentation of biological data. Includes lectures, seminars, and computer laboratory.

BIO 302 **Evolutionary & Ecological Genetics** 3
Prereq.: BIO 200 or permission of chair. Study of the genetic diversity of species and populations, and the processes that affect their evolution including natural selection, gene flow, and mutation. Review of basic genetics from General Biology. Applications of genetics to modern problems in ecology and conservation. Spring.

BIO 315 **Microbial Ecology** 4
Prereq.: BIO 200 (or permission of instructor) and CHEM 161 and 162 (formerly combined as CHEM 121) or CHEM 121. Ecology and biodiversity of aquatic and terrestrial microbes. Laboratories deal with microbial distribution, ecosystem function, and methods of studying microbes in the environment. Three hours of lecture and one, three-hour laboratory per week. Fall.

BIO 318 **Anatomy and Physiology I** 4
Prereq.: BIO 122 or BMS 201 or NRSE 150; or permission of 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. Cross listed as BMS 318. Fall.

BIO 319 **Anatomy and Physiology II** 4
Prereq.: BIO 122; or BMS 201; or NRSE 150; or permission of 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. Cross listed as BMS 319. Spring.

BIO 322 **Vertebrate Zoology** 4
Prereq.: BIO 200 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. Spring. (E)

BIO 326 **Mushrooms, Mosses, & More** 4
Prereq.: BIO 200 or permission of the department chair. Natural history and importance to human health, agriculture, and industry of fungi, algae, lichens, liverworts, and mosses. Three hours of lecture and three hours of lab/field trips per week. Occasional Saturday field trips. No credit given to those with credit for BIO 226. Irregular.

BIO 327 **Vascular Plants** 4
Prereq.: BIO 200 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. Spring.

BIO 331 **Neurobiology** 4
Prereq.: Bio 200 or permission of instructor. Basic principles of neuroscience. Resting potentials, action potentials, synaptic transmission, sensory systems, learning, neural circuits underlying behavior, neurological diseases and mental illness. Three hours of lecture and one, three-hour laboratory per week. Spring. (O)

BIO 333 **Endocrinology** 3
Prereq.: Bio 200 or permission of department chair. Structure and function of endocrine systems. Endocrine disease and hormonal control mechanisms involved in regulating reproduction, growth, and homeostatic systems within animals. Spring. (E)

BIO 390 **Biology Research Experience II** 1
Prereq.: BIO 290, or 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.

BIO 391 **Internship in Biology** 1 TO 6
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.

BIO 401 **Human Nutrition and Metabolism** 3
Prereq.: BIO 200 and BIO 290, or permission of department chair. 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.

BIO 405 **Ecology** 4
Prereq.: BIO 200 and BIO 290 (or permission of department chair) and CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or CHEM 122. 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.

- BIO 410 Ecological Physiology** 4
Prereq.: BIO 200 and BIO 290 and CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or CHEM 122 or permission of department chair. An examination of the physiological interactions between organisms and their associated ecosystems. Equivalent of three hours of lecture and three hours of laboratory per week. Summer.
- BIO 412 Human Physiology** 3
Prereq.: BIO 122; or BMS 201; or BIO/BMS 318 and 319; or permission of department chair. 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. Cross listed as BMS 412. Fall.
- BIO 413 Human Physiology Laboratory** 1
Prereq. or coreq.: BIO 412 or BMS 412 (either may be taken concurrently). Laboratory course to accompany BIO 412. One three-hour laboratory per week. Cross listed as BMS 413. Fall.
- BIO 414 Human Disease** 3
Prereq.: BIO 200 and BIO 290. Human diseases caused by pathogenic organisms, environmental factors, and physiological and immunological disturbances. Review of normal functions and homeostasis followed by discussion of altered function. Irregular.
- BIO 416 Immunology** 3
Prereq.: Any 300-level (or higher) course in Biology or Biomolecular Science or permission of chair. Cells and organs of the immune system, immunoglobulin structure and genes, antigen-antibody interactions, major histocompatibility genes and molecules, complement, humoral and cell-mediated immunities, hypersensitivities, immunodeficiencies, transplants, and autoimmunity. Spring.
- BIO 420 Ornithology** 4
Prereq.: BIO 200 and BIO 290 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)
- BIO 421 Invertebrate Zoology** 4
Formerly BIO 321 and BIO 221. Prereq.: BIO 200 and 290; 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 or 321. Irregular.
- BIO 425 Aquatic Plant Biology** 4
Prereq.: BIO 200 and BIO 290, 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)
- BIO 434 Ecology of Inland Waters** 4
Prereq.: BIO 200 and BIO 290, or permission of department chair and CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or CHEM 122. A comparison of lotic and lentic freshwater 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)
- BIO 436 Environmental Resources and Management** 3
Prereq.: BIO 200 and BIO 290, or permission of department chair and CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or 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)
- BIO 438 Aquatic Pollution** 4
Prereq.: BIO 200 and BIO 290 (or permission of department chair) and CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or 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. Some Saturday field trips required. Spring. (O)
- BIO 440 Evolution** 3
Prereq.: BIO 200 and BIO 290 or permission of department chair. Mechanisms of inter-generational change including mutation selection, and drift; sexual selection; speciation; and extinction. Fall. (O)
- BIO 444 Plant Taxonomy** 3
Prereq.: BIO 200 and BIO 290 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. Fall.
- BIO 449 Plant Physiology** 3
Prereq.: BIO 200 and BIO 290; or BMS 201 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. Spring.
- BIO 450 Investigations in Plant Physiology** 1
Prereq.: BIO 449 (may be taken concurrently) or permission of instructor. Investigative laboratory in plant physiology. Topics include water potential, transpiration, mineral nutrition, phloem transport, photosynthetic and respiratory gas exchange, photosynthetic electron transfer, plant movements, and plant hormones. One three-hour lab per week. Spring.
- BIO 470 Field Studies in Biology** 1 TO 4
Prereq.: BIO 200 and BIO 290, or permission of department chair (interview with instructor required for courses outside of the U.S.). Travel-based field biology experience. Students will learn to identify biological questions, design and conduct observations and/or experiments, and analyze their data and reach valid conclusions. May be repeated at different field sites. Irregular.
- BIO 480 Animal Behavior** 3
Prereq.: BIO 200 and BIO 290 or permission of department chair. Adaptive function, evolutionary history, development and physiological control of animal behavior. Fall. (E)
- BIO 481 Skeletal Biology** 4
Prereq.: BIO 200 and BIO 290 or permission of department chair. The vertebrate skeletal system as a model for the study of evolutionary homology, development, and functional morphology. Physiology and diseases of the skeleton are included. Three hours of lecture and three hours of laboratory per week. Irregular.
- BIO 488 Animal Behavior Laboratory** 2
Prereq.: BIO 200 and BIO 290 or permission of department chair. Laboratory and field exercises designed to test hypotheses about the development, adaptive function, evolution, and physiological control of behavior of vertebrates and invertebrates. Includes an extensive observation-based behavioral catalog for a species of the student's choosing. Three hours of laboratory and one hour of lecture per week. Fall. (E)
- BIO 489 Vertebrate Dissection** 2
Prereq.: BIO 200 and BIO 290 or permission of department chair. The anatomy of representative vertebrates, with emphasis on the muscular, digestive, circulatory, reproductive, excretory, and other soft tissue systems. Laboratory work will include dissection of specimens. One hour of lecture and three hours of laboratory per week. Irregular.
- BIO 490 Topics in Biology** 3 TO 4
Prereq.: BIO 200 and BIO 290 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.

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.

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.

BIOMOLECULAR SCIENCES

BMS 100 **Search in Biomolecular Sciences** 3
Examination of various topics, contemporary issues, and problems in biomolecular sciences. Three hours of lecture per week. No credit given toward a major or minor in the sciences. Course may be repeated one time with a different topic. Irregular. Study Area IV

BMS 101 **Search in Biomolecular Sciences with Lab** 3
Examination of various topics, contemporary issues, and problems in biomolecular sciences. Sections include two lectures and one, two-hour laboratory per week. No credit given toward life sciences majors or minors. Course may be repeated one time with a different topic. Irregular. Study Area IV

BMS 102 **Introduction to Biomolecular Science** 3
An introduction to cell physiology and basic metabolism (including the fundamentals of molecular genetics) and the organization, structure and function of animal tissues and organ systems. Study Area IV

BMS 103 **Introduction to Biomolecular Science Laboratory** 1
Prereq.: BMS 102 (may be taken concurrently). Laboratory course to accompany BMS 102. One, three-hour lab per week. Study Area IV

BMS 111 **Cells and the Human Body** 3
An overview of the structure and function of the cell and its metabolism. Topics include genetics and molecular mechanisms underlying cellular structure and function, and the need for and generation of multiple cell types and organ systems in the human body. Covers the workings of the major organ systems in maintaining the overall health of an individual. No credit given to students with credit for BIO 111. Cannot be used to meet requirements for major or minor in biomolecular sciences. Study Area IV

BMS 113 **Laboratory Experience in Biomolecular Science** 1
Prereq.: BMS 100 or BMS 102 or BMS 111 or BIO 100 or BIO 111 (any of these may be taken concurrently). Laboratory experiences in biomolecular sciences, with a strong emphasis on hypothesis development, experimentation, data analysis and written reports. One, two-hour laboratory per week. Study Area IV

BMS 190 **Introduction to Research I** .5
Prereq.: BMS 102 (may be taken concurrently). Weekly discussions with research seminars, presentations by students currently doing research, and other instruction appropriate to the first year biomolecular sciences major (portfolio, career advising, workshops, etc.). One hour per week.

BMS 201 **Principles of Cell and Molecular Biology** 4
Prereq.: BMS 102 and BMS 103 or BIO 121; or permission of department chair. 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. Study Area IV

BMS 206 **Genetics for Nursing** 3
Prereq.: BMS 102, or BMS 111, or BIO 111, and CHEM 150. Introduction to human and clinical genetics for nursing majors. Will include overview of transmission and molecular genetics, with special emphasis on human and health-related issues. Cannot be used to satisfy the requirements for a major in biomolecular science or biology. Three hours of lecture per week. Irregular.

BMS 216 **Microbiology for Nursing** 3
Prereq.: BMS 102, or BMS 111, or BIO 111, and CHEM 150, or permission of department chair. Introduction to bacteriology, virology, mycology, immunology, and parasitology. Course will focus on the interactions between humans and the microbial world that influence health and disease. The laboratory exercises will give students significant experience with basic techniques for studying and manipulating microorganisms, including microscopy, culturing of bacteria, and biochemical and behavioral testing of known and unknown samples. Cannot be used to satisfy the requirements for a major in biomolecular science or biology. Two, one-hour lectures and one, two-hour laboratory per week. Irregular.

BMS 290 **Introduction to Research II** .5
Prereq.: BMS 201 (may be taken concurrently) and BMS 190; or permission of department chair. Weekly discussions consisting of research seminars by biomolecular sciences faculty and students. Coverage of career options, the nature of research, and advising. One hour per week.

BMS 306 **Genetics** 4
Prereq.: BMS 201 or permission of the department chair, and CHEM 161 and CHEM 162 (formerly combined as CHEM 121) or 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 hours of lecture and one, three-hour laboratory per week.

BMS 311 **Cell Biology** 4
Prereq.: BMS 201 or permission of the department chair, and CHEM 161 and CHEM 162 (formerly combined as CHEM 121) or 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.

BMS 316 **Microbiology** 4
Prereq.: BMS 201 or permission of the department chair and CHEM 161 and CHEM 162 (formerly combined as CHEM 121) or 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.

BMS 318 **Anatomy and Physiology I** 4
Prereq.: BIO 122 or BMS 201 or NRSE 150, or permission of 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. Cross listed as BIO 318. Fall.

BMS 319 **Anatomy and Physiology II** 4
Prereq.: BIO 122 or BMS 201 or NRSE 150 or permission of 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. Cross listed as BIO 319. Spring.

BMS 320 **Histology** 2
Prereq.: BMS 201 or permission of department chair. A laboratory-based course building on the concepts of protein and cell structure learned in BMS 201. Students will identify tissues and understand their special function and location in the body. Students will also learn techniques for tissue embedding, sectioning and staining. Two, two-hour laboratories per week. Irregular.

- BMS 322 Comparative Animal Physiology** 4
Prereq.: BMS 201. Basic animal physiology course comparing strategies used by different organisms. Topics may include: respiration, oxygen delivery, metabolism, excretion of wastes, motion, temperature regulation and osmotic balance. Topics will be studied on tissue, cellular and molecular levels. The laboratory component (3 hours, one day per week) will be student designed experiments assisted by faculty. In addition, there will be several longer experiments that will be done over the entire semester.
- BMS 380 Emergency Medical Technician (EMT)** 6
Formerly IT 380. 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 will be given automatically upon proof of current EMT certification as issued by the Office of Emergency Medical Service, State of Connecticut. Cannot be counted towards a major in biology.
- BMS 390 Independent Research in Biomolecular Science** 1
Prereq.: BMS 290 and written permission of instructor and department chair. Laboratory research under the guidance of one or more department members. Written report or presentation, portfolio review, and attendance at research seminars required. May be repeated with a different instructor for a maximum of two credits. On demand.
- BMS 391 Internship in Biomolecular Science** 1 TO 3
Prereq.: Written permission of instructor and department chair. Projects in biomolecular science 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.
- BMS 412 Human Physiology** 3
Prereq.: BIO 122, or BMS 201, or BIO/BMS 318 and 319; or permission of department chair. Study of 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. Cross listed as BIO 412. Fall.
- BMS 413 Human Physiology Laboratory** 1
Prereq.: BMS 412 or BIO 412 (may be taken concurrently). Laboratory course to accompany BMS 412. One three-hour laboratory per week. Cross listed as BIO 413. Fall.
- BMS 414 Pharmacology, Physiology, and Drug Development** 3
Prereq.: BMS 318 or BMS 319 or BMS 412 or BIO 318 or BIO 319 or BIO 412; and CHEM 163 and CHEM 164 (formerly combined as CHEM 122); or permission of department chair. Basic principles of pharmacology and the physiological mechanisms underlying drug action. Focus on the pharmacology of: the nervous and cardiovascular systems, chemical dependency and chemotherapy for cancer. Irregular.
- BMS 415 Advanced Exploration in Cell, Molecular, and Physiological Biology** 3
Prereq.: BMS 306 or BMS 311 or BMS 316 or permission of instructor. The focus will be on understanding a modern biological issue at the level of molecular, cellular, and physiological inquiry. The treatment of the topic will be at an advanced level, reflective of current research in the field. May be repeated under a different topic for a maximum of 6 credits. Irregular.
- BMS 416 Experimental Microbiology** 2
Prereq.: BMS 316, or permission of department chair. Laboratory-based course which builds on the concepts and skills learned in BMS 316: Microbiology. Topics will include microbial genetics and physiology, and behavior and interactions between microorganisms. Two, two-hour laboratories per week. Irregular.
- BMS 490 Topics in Biomolecular Sciences** 3 OR 4
Prereq.: BMS 201 or permission of department chair. Selected studies in the biomolecular 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.
- BMS 491 Advanced Independent Research in Biomolecular Science** 1 TO 3
Prereq.: BMS 390 and written permission of instructor and department chair. Advanced laboratory research under the guidance of one or more department members. Continuation of research begun in BMS 390. Written report or presentation, portfolio review, and attendance at research seminars required. May be repeated for a maximum of five credits. On demand.
- BMS 495 Capstone in Molecular Biology** 4
Prereq.: BMS 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.
- BMS 496 Capstone in Biosynthesis, Bioenergetics and Metabolic Regulation** 3
Prereq.: BMS 306 or BMS 311 or BMS 316; and CHEM 212 and CHEM 213; 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.
- BMS 497 Biosynthesis, Bioenergetics and Metabolic Regulation Laboratory** 1
Prereq. or coreq.: BMS 496 or BMS 506. Laboratory to accompany BMS 496 or 506. One three-hour laboratory per week. Irregular.
- BMS 499 Undergraduate Thesis in Biomolecular Sciences.** 1
Prereq.: BMS 491 (may be taken concurrently) and written permission of thesis advisor. Student must submit thesis proposal based on project done in BMS 491 to the biomolecular sciences department and complete the undergraduate thesis under the supervision of the thesis advisor. The same BMS 491 project may not be the subject of both an HON 441 thesis and a BMS 499 thesis. On demand.

BUSINESS

- BUS 100 Business, Ethics, and Modern Society** 3
This course introduces the first year student to the discipline of business, from scheduling and advising to planning for academic success. We also introduce the future business student to the topic of ethics, from the perspective of our five major disciplines of accounting, finance, information systems, management, and marketing. Fall.
- BUS 101 Introduction to Business** 3
Introduction to the functional areas of business designed for first-year students. This course is intended to be taken simultaneously with an FYE 101 section offered by the School of Business. Students who have taken any course in the lower division business core may not take this course.

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.
- 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.

CHEMISTRY

- CHEM 102** Chemistry of Nutrition 3
An introduction to nutrition, the basic nutrients, their chemistry, and their role in health. Two hours of lecture 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 3
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. Two hours of lecture and one two-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
- CHEM 150** Chemistry of Allied Health I 3
Prereq.: MATH 101. Introduction to the structure and behavior of matter in relation to its functions in the body and in health. Topics include: atomic structure, nuclear chemistry, chemical bonding, the mole, chemical reactions and energy changes, gas laws, acid-base theory and an introduction to biomolecules of living systems. Three hours of lecture per week. Intended for non-science majors in physical education nursing, and allied health fields. Fall. Study Area IV
- CHEM 152** Chemistry of Allied Health II 4
Prereq.: CHEM 150. Basic principles of organic and biological chemistry in the context of living systems. Topics include functional groups and reactions of organic compounds; structure and function of biomolecules in the cell; enzymes and vitamins; principles of metabolism and energy production. Three hours of lecture and one, three-hour laboratory per week. Intended for non-science majors in nursing, physical education and allied health fields. Spring. Study Area IV
- CHEM 161** General Chemistry I 3
Prereq.: MATH 101 or math placement exam. 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 per week. Study Area IV
- CHEM 162** General Chemistry I Laboratory 1
Prereq.: CHEM 161 (may be taken concurrently). Basic techniques of chemical synthesis and analysis. One, three-hour laboratory per week. Study Area IV
- CHEM 163** General Chemistry II 3
Prereq.: CHEM 161 and CHEM 162 (formerly combined as CHEM 121). Quantitative aspects of chemistry including kinetics, thermodynamics, and oxidation-reduction chemistry. Three hours of lecture per week. Study Area IV
- CHEM 164** General Chemistry II Laboratory 1
Prereq.: CHEM 163 (may be taken concurrently). Intermediate techniques of chemical synthesis and analysis. One three-hour laboratory per week. Study Area IV
- CHEM 210** Organic Chemistry I 3
Prereq.: CHEM 163 and CHEM 164 (formerly combined as CHEM 122) or CHEM 122. The syntheses, reactions, and nomenclature of the principal classes of aliphatic and aromatic carbon compounds will be introduced. The topics of stereochemistry and conformational analysis are also considered. Three hours of lecture per week.
- CHEM 211** Organic Chemistry I Laboratory 1
Prereq.: CHEM 163 and CHEM 164 (formerly combined as CHEM 122) and CHEM 210 (may be taken concurrently). Basic techniques used in organic synthesis. Determination of physical constants such as melting and boiling point, refractive index, and optical rotation. Basic separation techniques including recrystallization, simple and fractional distillation, extraction, and chromatography. Several experiments elucidating the chemistry of organic compounds introduced in CHEM 210. Three hours of laboratory week.
- CHEM 212** Organic Chemistry II 3
Prereq.: CHEM 210 and CHEM 211. Syntheses, reactions, and nomenclature of the advanced classes of aliphatic, aromatic, and carbonyl-containing carbon compounds. Mass spectrometry, and infrared and nuclear magnetic resonance spectroscopies are considered. Three hours of lecture per week. Spring, summer.
- CHEM 213** Organic Chemistry II Laboratory 1
Prereq.: CHEM 210 and CHEM 211 and CHEM 212 (may be taken concurrently). Synthesis and reactions of the organic functional groups introduced in CHEM 212 will be performed. Spectral analysis of organic compounds also emphasized. Three hours of laboratory per week. Spring, summer.
- CHEM 238** Introduction to Research 1 TO 6
Prereq.: CHEM 162 and 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 152 or CHEM 163 and 164 (formerly combined as 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)
- CHEM 301** Analytical Chemistry 4
Prereq.: CHEM 163 and 164 (formerly combined as CHEM 122) or 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.
- CHEM 316** Spectrometric Identification of Organic Compounds 3
Prereq.: CHEM 212 and CHEM 213. A study of physical methods of structure determination, with emphasis on infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry. Two hours of lecture and one, three-hour laboratories per week. Fall. (O)
- CHEM 320** Biophysical Chemistry 3
Prereq.: CHEM 212 and MATH 152 and 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)
- CHEM 321** Physical Chemistry of Thermodynamics & Kinetics 3
Prereq.: CHEM 301, and CHEM 212 and PHYS 126 and MATH 221. In-depth examination of solid, liquid, and gas behavior, including thermodynamics and kinetics as applied to chemical processes. Three hours of lecture per week. Fall. (O)
- CHEM 322** Physical Chemistry of Quantum & Statistical Mechanics 3
Prereq.: CHEM 212, CHEM 301, PHYS 126, MATH 221. 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 per week. Fall. (E)
- CHEM 323** Physical Chemistry Laboratory 1
Prereq.: CHEM 321 or 322 (either may be taken concurrently). Physical chemistry methods in laboratory including spectroscopic methods, computational methods, thermochemical analysis, vacuum system methods and instrumentation construction. Fall. (O)
- CHEM 354** Biochemistry 3
Formerly CHEM 454. Prereq.: CHEM 212. General principles of biochemistry, chemical constituents of cells, metabolic pathways, energies, and biochemical regulators. Three hours of lecture per week. Fall.
- CHEM 402** Instrumental Methods in Analytical Chemistry 4
Prereq.: CHEM 301 and CHEM 322 or CHEM 320; 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)

CHEM 406 Environmental Chemistry 3
Prereq.: CHEM 301 and CHEM 210 and 211. 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)

CHEM 432 Chemistry Seminar 2
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.

CHEM 438 Undergraduate Research 1 TO 6
Prereq.: CHEM 213 and 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 455 Biochemistry Laboratory 1
Prereq.: CHEM 213 and 354 (formerly CHEM 454). Experimental work to accompany CHEM 354. One three-hour laboratory period per week. Fall. (E)

CHEM 456 Toxicology 3
Prereq.: CHEM 212. 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 458 Advanced Biochemistry 3
Prereq.: CHEM 354 (formerly CHEM 454) or BMS 496. Advanced consideration of biochemistry topics including biophysical concepts in the action of proteins and nucleic acids; enzyme catalysis and regulation, and cell-cell communication. Current experimental methodologies will be emphasized. Spring.

CHEM 459 Bioinorganic Chemistry 3
Prereq.: CHEM 354 (formerly CHEM 454). 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)

CHEM 460 Inorganic Symmetry & Spectroscopy 3
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 per week. Spring. (E)

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)

CHEM 462 Inorganic Chemistry Laboratory 1
Prereq.: CHEM 460 or 461 (may be taken concurrently). Laboratory course concerned with the synthesis and characterization of inorganic compounds. Topics include air-sensitive manipulation, coordination chemistry and chemistry of materials. One three-hour laboratory periods per week. Spring. (O)

CHEM 485 Topics in Chemistry 3
Prereq.: CHEM 320 or CHEM 321 or CHEM 322. 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

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 126 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)

COMMUNICATION

Note: Pre-Communication majors are not allowed in 300- and 400-level courses except COMM 301, 302, 303, and 330.

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 telecom-telecommunication systems such as satellite, computer networks, and teleconferencing influence 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
Survey all aspects of public relations including theories of image-making, events planning, publicity, promotion, media campaigning, and crisis management.
- COMM 240 Survey of the Field of Communication 3
Development of communication as a discipline and as an intellectual and practical field. Introduction to theories of rhetoric, public relations, broadcast journalism, media studies and organizational communication.
- 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 256 Professional Communication 3
Skills required to be a successful professional. Emphasizes understanding and becoming proficient in relationship management, presentational speaking, interpersonal communication, written communication and communication in small groups. Spring. Skill Area I
- 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 301 Critical Thinking 3
Prereq.: Sophomore standing (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. Sophomore standing (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 305 Principles and Processes of Mass Communication 3
Prereq.: COMM 230 (with a grade of C- or higher). Explanation of broadcast journalism and the principles and processes of mass communication.
- 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 (C- or higher). 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 (C- or higher). A review of current changes in philosophy, content, and processes in media use and application as this use affects society and its value system.
- COMM 337 Media Campaigns 3
Prereq.: COMM 230 (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.
- COMM 338 Analysis of News 3
Prereq.: COMM 230 (with a grade of C- or higher). Broad array of critical and interpretive skills that can be used to analyze the news. Examines economic, social and political underpinnings in the manufacturing of the news, and the processes affecting the formal and structural characteristics of the news. Substantial practical experience in the process of news analysis. Irregular.
- 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 News Reporting and Writing for the Electronic Media 3
Prereq.: COMM 230 and COMM 201 or COMM 202 or COMM 330 all with a grade of C- or higher. To teach the skills and provide background knowledge essential to accurate and informed reporting and writing in the electronic media.
- 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 380 Women and Film 3
Examines selected films with regard to the representation of women on screen, women's filmmaking as a critical practice, and issues in feminist film theory and criticism. Includes perspectives on Hollywood and independent American and international cinema. Fall. (E)
- COMM 382 American Cinema 3
Not open to pre-communication majors. Examines the film industry in the United States. The genres of Hollywood cinema and independent films will be studied as unique economic, industrial, aesthetic, and cultural institutions. Spring.

- COMM 384 Nonverbal Communication 3
Research-based class focused on understanding the various forms of nonverbal messages and their impact on perception, individuals, and communication. Open to communication majors only. Spring.
- COMM 416 Gender and Communication 3
Not open to pre-Communication majors. Examines different theoretical approaches to gender and the implications these have for our understanding of communication theories and practices. Winter, spring.
- COMM 420 Principles of Digital Photography for Journalism 3
Prereq.: COMM 255 or COMM 336. Explores the communication dimensions of the new digital photography technology and its flexibility to be used in the fields of journalism promotions, advertising and public relations. Fall.
- 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 (C- or higher). 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. No credit for students having taken WS or WGSS 435. Spring.
- COMM 436 Public Relations and Web Publishing 3
Prereq.: COMM 234 (C- or better). Open to Communication majors only. How to use the web to promote products, services, or events, to interact with the press and other communication channels, and to give feedback from the different publics that may constitute the target audiences of specific public relations campaigns. Fall.
- 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 445 Advertising and Society 3
Prereq.: Junior or above standing. Examines advertising as a cultural and economic force in mass society. Emphasis will be on concepts and methods that enable a critique of advertising campaigns and strategies. Irregular.
- COMM 450 Communication Skills for Training and Development 3
Prereq.: For graduate students, COMM 500 (may be taken concurrently). 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
Knowledge, attitude, and behavior-change strategies related to environmental and natural resource conservation issues. Coercive, incentive based, and communication-based change strategies will be contrasted. Additional written work will be required for graduate students. No credit given to students who have taken COMM 506. On demand.
- 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 and Social Change 3
Prereq.: For graduate students, COMM 500 (may be taken concurrently). 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.
- COMM 456 Corporate Communication 3
Prereq.: COMM 253 (with a grade of C- or higher). Not open to pre Communication majors. Examines the origins and nature of corporate communication and how it is carried out within businesses, associations, agencies, and the government. Investigates the communication of an organization with its various shareholders, including investors, customers, employees, and the press. Fall. (E)
- COMM 480 Television Documentary Production 3
Prereq.: COMM 427 (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. Lecture/lab meets 4 hours per week. Spring. Skill Area IV
- CET 201 Photonics Principles 3
Prereq.: MATH 115. Exploration of light, the laws of reflection and refraction and how they apply to several devices. Examination of wavelike behavior of light. An overview of fiber optics and optical image is presented. Lecture/lab meets 5 hours per week. Fall.
- CET 223 Basic Electrical Circuits 3
Prereq.: MATH 115 or MATH 119 (either may be taken concurrently) or math placement exam. Operation of DC circuits including voltage, current, resistance, power electromagnetism, capacitance, inductance, and basic theorems. Introduction of AC sine wave, and operation in circuits. Laboratory experiments involve building circuits and using instruments to measure quantities. Lecture/lab meets 5 hours per week.

- 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. Lecture/lab meets 5 hours per week. Fall.
- 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. Lecture/lab meets 5 hours per week.
- CET 236 Circuit Analysis** 3
Prereq.: ET 150 and MATH 135 or MATH 152. Introduction to theory, analysis and design of AC and DC circuits. Topics include voltage, current, power, resistance, capacitance, inductance, node analysis, mesh analysis, Thevenin's theorem, Norton's theorem, phasors, transfer functions, steady state and transient analysis. Lecture/lab meets 5 hours per week. Fall.
- 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. Lecture/lab meets 5 hours per week. Spring.
- CET 249 Introduction to Networking Technology** 3
Prereq.: CET 229. This course will introduce the OSI network layers and basic networking technologies. Students will apply theory in a laboratory setting. Lecture/lab meets 4 hours per week. Spring.
- CET 301 Fiber-Optics Communications** 3
Prereq.: CET 201. Introduction to fiber-optic communication systems. Optical detectors and receivers. Coherent light wave systems. WDM communication systems and optical amplifiers. Lecture/lab meets 5 hours per week. Spring.
- CET 323 Electronic Circuits** 3
Prereq.: CET 233 or CET 236. Basic structure and characteristics of diodes and transistors. Covers linear integrated circuits and applications including operational amplifiers, oscillators, rectifiers, power amplifiers and voltage regulators. Laboratory experiments stress circuit building, troubleshooting, theoretical and instrumental concepts. Lecture/lab meets 5 hours per week. Irregular.
- 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. Lecture/lab meets 5 hours per week. Spring.
- CET 346 Signals & Systems** 3
Prereq.: CET 236 and either MATH 136 or MATH 221; or PHYS 339. Signal representation, applications of Fourier series, Fourier transform, Laplace transform, and Z-transform in the analysis of circuits and systems. Lecture/lab meets 5 hours per week. Spring.
- CET 349 Networking Devices** 3
Prereq.: CET 249. 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. Lecture/lab meets 4 hours per week. 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. Lecture/lab meets 5 hours per week. Fall.
- 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. 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.
- 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.: CET 363; graduate students must get permission of department chair. Microcontroller 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 interfacing experiments. Spring.
- CET 459 Network Security Technologies** 3
Prereq.: CET 249. Practical techniques of network security and how the field is related to information technology. Topics include general security concepts, communication security, infrastructure security, cryptography basics, and operational security. On demand.
- CET 466 Logic Design** 3
Prereq.: CET 363. Use of hardware design languages to implement digital design, including modular combinational circuits, flip-flops, latches, counter and synchronous sequential circuits in programmable devices such as FPGA. Lecture/laboratory. Irregular.
- 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.
- CET 498 Senior Project** 3
Prereq.: Senior standing. Study, design and/or research a particular project related to the major. Requirements include a paper and presentation of the project. Project may originate from student, instructor, and/or industrial partner. Majors only. On demand.

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
- 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 algo-

rithms. No credit given to students with credit for CS 151, 213 or MATH 446, 471. Skill Area II

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

CS 151 Computer Science I 3
Prereq.: MATH 119 or MATH 121 or placement test. First course in Computer Science. Introduces the fundamental concepts of computer programming with an object-oriented language with an emphasis on analysis and design. Topics include data types, selection and iteration, instance variables and methods, arrays, files, and the mechanics of running, testing and debugging. Skill Area II

CS 152 Computer Science II 3
Prereq.: CS 151 and MATH 152. Further topics in object-oriented programming: enhancing classes (inheritance, polymorphism) and using Application Programmer Interface. Event-driven programming. Elementary searching and sorting techniques. Introduction to software engineering issues. Recursion.

CS 153 Computer Science III 3
Prereq.: CS 152. Fundamental data structures: linked lists, stacks, queues. Introduction to binary search trees. Advanced sorting: quick and merge sorts. Study of a second programming language. Alternative implementations of linked lists. Basics of algorithmic analysis.

CS 207 Introduction to Computer Graphics 3
Prereq.: ART 110, 112 or 113 and either MATH 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

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

CS 213 Applications of Computing I 3
Prereq.: MATH 115 or MATH 119 or 121 or 125 or placement examination. 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

CS 214 Applications of Computing II 3
Advanced topics in object-oriented programming. Event-driven and recursive programming. Searching and sorting techniques. Introduction to software engineering issues. On demand. Skill Area II

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.

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.

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.

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.

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.

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.

CS 355 Introduction to Systems Programming 3
Prereq.: CS 153 and 254 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.

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.

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.

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.

CS 410 Introduction to Software Engineering 3
Prereq.: CS 253. 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.

CS 423 Computer Graphics 3
Prereq.: CS 253 or (for graduates) CS 501. 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.

CS 425 Image Processing 3
Prereq.: CS 253. Theory and algorithms of image processing and their implementation in computer programs. Image representation, sampling theory, image transforms, image enhancement, texture analysis, feature extraction, and computer vision. Spring.

CS 460 Database Concepts 3
Prereq.: CS 253 or (for graduates) CS 501. 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.

CS 462 Artificial Intelligence 3
Prereq.: CS 253 or (for graduates) CS 501. 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.

- CS 463 Algorithms 3
Prereq.: CS 253 or (for graduates) CS 501. 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.
- CS 464 Programming Languages 3
Prereq.: CS 253 or (for graduates) CS 501. 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.
- 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.
- 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.
- CS 481 Operating Systems Design 3
Prereq.: CS 253 or CS 501. Theory and design of computer operating systems. Topics include machine and interrupt structure, memory, processor, device, and information management. Spring.
- 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.
- CS 490 Computer Communications Networks & 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.
- CS 491 Wireless Communication Networks 3
Prereq.: CS 253 and CS 254. Theory and analysis of wireless and mobile computing, and wireless communication networks. Topics include wireless network architectures, mobile Internet protocols, mobility management algorithms, performance and optimization issues, and emerging technologies. Irregular.
- CS 492 Computer Security 3
Prereq.: CS 253 and CS 254. The fundamentals of computer and network security issues are explored. Topics include classical and modern techniques of conventional encryption; algorithms; public-key encryption, and hash functions; network security, with regard to e-mail, IP, and the Web; and system security intruders, viruses, worms, and firewalls. Irregular.
- 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.
- 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.
- CS 499 Seminar in Computer Science 3
Opportunity for student to explore topics of current interest not covered in normal curriculum. Majors only. Irregular.

CONSTRUCTION MANAGEMENT

- CM 135 Construction Quantity Take-Off 4
Understand and interpret drawing packages for building and heavy construction. Emphasis on analysis of architectural and structural drawings. Understand quantity take-off processes and conduct take-offs of sitework, concrete, masonry, steel, and rough carpentry. Lecture/lab meets five hours per week.
- CM 155 Construction Documents 3
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.
- 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
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.: CM 155, 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 275 Introduction of MEP Systems 3
Introduction to building mechanical, electrical and plumbing systems. Focus on how systems interact with other parts of the construction process. Identify major system components and understand how they operate. Spring.
- CM 325 Building Construction Estimating 4
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. Lecture/lab meets five hours per week. Fall.
- 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 345 Heavy/Highway Construction Estimating 4
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. Lecture/lab meets five hours per week. Spring.
- CM 353 Introduction to Surveying 4
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 discipline. Lecture/lab meets five hours per week. Spring.
- CM 355 Construction Planning 4
Prereq.: CM 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. Lecture/lab meets five hours per week.
- CM 356 Materials of Construction 4
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. Lecture/lab meets five hours per week. Fall.
- CM 405 Topics in Construction 3
Prereq.: Permission of department chair. An individualized inquiry of comprehensive study into a selected construction area. The student may elect to examine materials, methods, or techniques in modern construction. Course may be repeated for a maximum of 6 credits in different topics. On demand.

CM 415 Introduction to Construction Law 3
Introduction to the basic concepts of construction law and its impact on the construction industry. Topics include basic legal principles, formation and interpretation of construction contracts and legal remedies for dispute resolution. Linked to CM 515. Spring. (E)

CM 435 Construction Superintendency 3
Prereq.: Senior standing. Examination of the role of the construction supervisor. Emphasis on personnel scheduling, time keeping, trade unions, superintendents, and the duties of the project manager.

CM 455 Construction Project Management 4
Prereq.: CM 255 and 355 or permission of chair. Emphasis on administrative procedures, quality control, time and cost control, resource management, field office practices, construction processing, job site meetings, and correspondence. Lecture/lab meets five hours per week.

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.

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 multicultural issues.

CRIMINOLOGY AND CRIMINAL JUSTICE

CRM 101 Foundations in Criminology 1
Introduction to the criminology major. The course will address the requirements of the major, educational and career planning, and how to be successful in school and the profession. Specific topics include note taking, library research, interpreting, summarizing and referencing scholarly material, and appropriate classroom and professional behavior.

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

CRM 220 Ideology & Violence 3
Examination of the causes and consequences of politically-motivated violent crime. Irregular. Study Area III

CRM 230 Law Enforcement & Society 3
Formerly CRM 133. Prereq.: CRM 110 (C- or higher). 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 231 Criminal Procedure and the Courts 3
Prereq.: CRM 110 (with a grade of C- or higher). 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.

CRM 238 Corrections 3
Prereq.: CRM 110 (with a grade of C- or higher). 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 240 Gender, Crime and Criminal Justice 3
Examines how gender is related to crime and criminal justice, with a particular focus on the experience for females. Topics to be covered include patterns of victimization and offending by gender, and women in the criminal justice system as offenders and workers. Theories to explain differences in victimization and offending by gender will be explored. Irregular.

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 300 Criminology 3
Prereq.: CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C- or higher). 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 322 Research Methods in Criminal Justice 3
Prereq.: CRM 101, CRM 110, CRM 230, CRM 231 and CRM 238 (all with a grade of C- or higher). 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 330 Domestic Violence 3
Prereq.: CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C-). 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 332 Criminal Law 3
Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C-). This is a survey course on criminal law in the United States. Topics to be discussed are the sources of criminal law, limitations of criminal laws, the elements of criminal law, criminal law and the Constitution, criminal defenses, and criminal offenses. Irregular.

CRM 335 Physical Evidence in Criminal Investigation 3
Formerly CRM 395. Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C-). 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 339 Juvenile Delinquency 3
Formerly CRM 239. Prereq.: CRM 110, CRM 230, CRM 231, CRM 238 (all with grade of C- or higher). 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 360 Victimology 3
Formerly CRM 325. Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C-). Current theory and research regarding the victims of crime. Topics include victim vulnerability and culpability, restitution, mediation, treatment, and compensation. Irregular.

CRM 361 Principles and Ethics in Criminal Justice 3
Formerly CRM 301. Prereq.: CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C- or higher). Examination of selected principles of law enforcement, courts, and corrections. Overview of ethical dilemmas relevant to criminal justice.

CRM 362 Crime and Capitalism 3
Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C- or higher). Critical examination of capitalism in crimes against humanity; white collar, corporate, transnational, and government crime; and the creation of a criminal underclass. Irregular.

- CRM 363 Constitutional Law and the Criminal Justice System 3
Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C-). Examines the various areas the Constitution affects. Topics include the concept of federalism, the incorporation clause, interstate commerce and the federal criminal code, limitations on civil liberties, and prisoners rights. Irregular.
- CRM 366 Extreme Offending 3
Prereq.: CRM 101, CRM 110, CRM 230, CRM 231, and CRM 238 (all with grades of C- or higher). Explores perpetrators whose crimes fall outside the realm of traditional patterns of offending. Topics include serial murder, cult murder/suicide, major corporate malfeasance, and terrorism. Students will analyze perpetrators through available scholarship and source material. Person and environmental factors that conceptually link different types of perpetrators will be explored.
- CRM 401 Hate Crimes 3
Prereq.: CRM 300, CRM 322, and one elective from CRM 360-370 (all with grades of C-or higher). Provides an historical and contemporary overview of hate crimes, hate speech, hate acts, and hate crimes legislation. Focuses on case studies involving crimes against protected classes such as race, gender, religion, ethnicity, disability, and sexual orientation. Irregular.
- CRM 411 Community Corrections 3
Prereq.: CRM 300, CRM 322, and one elective from CRM 360-370 (all with grades of C-or higher). Examination of the use of community corrections in the United States. Topics will include pre-trial and post-sentencing programs such as bail administration, diversion programs, probation, parole, and alternatives to corrections. Irregular.
- CRM 412 Crime Prevention 3
Prereq.: CRM 300, CRM 322, and one elective from 360-370 (all with grades of C-or higher). Explores the theoretical basis and application of crime prevention techniques with a particular focus on environmental criminology and situational crime prevention. Ideological foundations of various crime prevention efforts are examined through case studies and limited fieldwork. Strong emphasis is placed on comparing and contrasting the situational/environmental crime prevention approach with traditional perspectives of crime. Strengths, weaknesses, practicality and policy difficulties of the situational/environmental approach are also examined. Irregular.
- CRM 420 Current Issues in Criminal Justice Policy 3
Prereq.: CRM 300, CRM 322, and one elective from CRM 360-370 (all with grades of C-or higher). 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 300, CRM 322, and one elective from CRM 360-370 (all with grades of C-or higher). 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 300, CRM 322, and one elective from CRM 360-370 (all with grades of C-or higher); and senior status and permission of internship coordinator. 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 300, CRM 322, and one elective from 360-370 (all with grades of C-or higher). For graduate students, admission to the M.S. Criminal Justice Program and in good standing; or permission of the department chair. 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 460 Sexual Predators 3
Prereq.: CRM 300, CRM 322, and one elective from 360-370 (all with grades of C-or higher). Traces sexually aggressive behavior from its etiology to its manifestation in offending to its impact on the victim to criminal justice system responses to the offender. Topics include profiles of various sex crimes, community supervision of sex offenders, and registration and community notification laws. Irregular.
- CRM 475 Controlling Anger and Aggression 3
Prereq.: CRM 300, CRM 322, and one elective from 360-370 (all with grades of C-or higher). For graduate students admission to the M.S. Criminal Justice Program and in good standing; or permission of department chair. 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 300, CRM 322, and one elective from 360-370 (all with grades of C-or higher). 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 151–157 and 377 are general activity courses, open to all students.

- DAN 151 Beginning Modern Dance 2
Modern dance technique incorporating the Limon/Humphrey style. Attention is given to combinations across the floor. Choreographic approaches and improvisational skills are explored and developed resulting in short studio presentations. May be repeated for a maximum of 4 credits with permission of instructor. Fall.
- DAN 152 Beginning Ballet 1
Introduces fundamentals, historical background and terminology of ballet. Application of barre exercises, basic positions, and beginning center floor work will be developed. May be repeated for a maximum of 2 credits with permission of instructor. Spring.
- DAN 157 Beginning Jazz Dance 1
Introduction to jazz dance emphasizing the origin of dance in America. Simple center floor combinations will be taught. May be repeated for a maximum of 2 credits with permission of instructor. Irregular.
- DAN 200 Dance Practicum 1
Provides a practical opportunity to hone skills through production. Meetings will be divided between production meetings, rehearsals, evaluation of recently completed projects and workshops lead by professionals in the field. May be repeated for a maximum of 8 credits.
- DAN 235 Movement for Performers 2
While finding new ways to move through improvisation and self-exploration, students will have an opportunity to develop their own movement style. Fall.
- DAN 236 Principles of Choreography 2
Prereq.: DAN 235 (formerly TH 235). Introduces dance composition. Solo, partner and group work in basic choreographic processes and forms are explored, developed, presented, and evaluated. Includes readings, writings, and videos on choreographers and choreography. Fall.
- DAN 252 Intermediate Ballet 1
Attention will be given to a full ballet barre with more complex adagio and allegro work. Turns will be emphasized. May be repeated for a maximum of 2 credits with permission of instructor. Spring.
- DAN 257 Intermediate Jazz Dance 1
A fast-paced rhythmic class with more complex combinations. Choreographic approaches will be developed resulting in a short studio performance. May be repeated for a maximum of 2 credits with permission of instructor. Irregular.
- DAN 272 Creative Dance in Education 2
Introduction to spatial and dynamic considerations of movement focusing on kinesthetic awareness and movement analysis. The Laban Framework and cross-curricular concepts are integrated in making and teaching creative dances and lessons for the elementary curriculum.

DAN 299 Dance History 3
A study of the evolution of dance in world cultures and the influences they have had on the development of American dance in the 20th and 21st century. Course includes lecture, video presentations, and selected readings. Irregular. Study Area I [I]

DAN 377 Modern Dance & Theory 1
Prereq.: DAN 151 or DAN 272 or permission of department chair. Continuation of modern dance technique including elements of performance. Movement analysis, improvisation, and choreographic forms are developed and pedagogical material for the secondary level will be a strong focus. May be repeated for a maximum of 3 credits with permission of instructor.

DAN 480 Project: Dance 1 TO 3
Prereq.: Permission of instructor. Individual projects in choreography, research, or production under the guidance of dance/theatre staff. Irregular.

DESIGN (GRAPHIC/INFORMATION)

Note: Students enrolled in the following courses will be assessed a \$65 Design Lab Fee: DES 222, 225, 322, 325, 326, 425, 436, 438, 439, 465, 498, 499. Contact the Department at 860-832-2557 for additional information.

DES 100 Introduction to Graphic/Information Design 3
Overview of the principles, practices, and purposes of the field of graphic/information design. Not recommended for majors. Irregular. Study Area I

DES 122 Fundamentals of Graphic/Information Design 3
Exploration of Graphic/Information Design principles, practices, and problem solving. Pre-Graphic/Information Design majors only. No transfer credit will be accepted. May be repeated only with the permission of the department chair. Fall. Study Area I

DES 222 Graphic/Information Design I 3
Prereq.: ART 130 (with a grade of C- or higher). 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.

DES 225 History & Design of Typography 3
Prereq.: DES 222 (C- or higher). Exploration of the history of letterforms including exercise in design and application in contemporary use. Majors only. Fall.

DES 322 Graphic/Information Design II 3
Prereq.: DES 222 (grade of B or higher) and DES 225 (C- or higher) and either ART 230 or 224 (with a grade of C- or higher). 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.

DES 325 Digital Imaging for Design I 3
Prereq.: DES 322 (with a grade of C- or higher) 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.

DES 326 Digital Imaging for Design II 3
Prereq.: DES 325 (with a grade of C- or higher). 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.

DES 419 History of Design 3
Prereq.: ART 110 or 112 or 113 (with grades of C- or higher). History and philosophy of design function and aesthetics. Topics include graphic design, industrial design, and architectural design. NOTE: A grade of C or better is needed for graduate students to count this course as a prerequisite. [I]

DES 425 Three-Dimensional Imaging for Graphic/Information Design 3
Prereq.: DES 325 (C- or higher). Exploration of the artistic and creative three dimensional visual effects including modeling, texturing, lighting, rendering and compositing as it applies to the practice of Graphic/Information Design. Majors only. Spring.

DES 436 Graphic/Information Design III 3
Prereq.: ART 224 and DES 322 (both with grades of C- or higher). 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.

DES 437 Design Internship 3
Prereq.: DES 326 and DES 436 (grade of C- or higher) and permission of instructor. Internship with professional graphic/information design organization. Open to majors only.

DES 438 Graphic/Information Design IV 3
Prereq.: DES 436 (with grade of C- or higher). 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.

DES 439 Central Design 3
Prereq.: DES 326 and DES 436 (both with grades of C- or higher) and successful Central Design portfolio review; 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.

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.

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.

DES 499 Computer Applications for Graphic/Information Design 3
Prereq.: DES 326 (with a grade of C- or higher) and DES 425 (with a grade of C- or higher) 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.

EARTH SCIENCES

ESCI 100 Search in Earth Science 3
Examination of various topics, contemporary issues and problems in earth sciences. Three hours of lecture per week. Cannot be used to meet requirements for majors or minors in earth science. No credit given to students having taken ESCI 100 or ESCI 101 with the same topic. Course may be repeated one time with a different topic. Irregular. Study Area IV

ESCI 101 Search in Earth Science with Laboratory 3
Examination of various topics, contemporary issues and problems in earth sciences. Two lectures and one, two-hour lab per week. Cannot be used to meet requirements for majors or minors in earth science. No credit given to students having taken ESCI 100 or ESCI 101 with the same topic. Course may be repeated one time with a different topic. Irregular. Study Area IV

ESCI 110 Introduction to the Earth 3
Prereq.: No more than 5 credits in Earth Science. 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. May not be applied to a major or minor in Earth Sciences. 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.: MATH 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 4
Basic principles of development of the earth, earth materials, and agents responsible for existing surface features. Three lectures and one two-hour lab per week. There may be one or more field trips. 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 129 Introduction to Meteorology 4
Prereq.: MATH 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 221 Mineralogy 4
Prereq.: ESCI 121 and PHYS 122 and CHEM 161 and CHEM 162 (formerly combined as CHEM 121) or CHEM 121. Study of minerals, their formation, occurrence, properties, composition, and classification. Topics include crystal chemistry, 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. One or more one-day field trips. Fall. (E)
- ESCI 223 Stratigraphy and Sedimentology 4
Formerly ESCI 421. Prereq.: ESCI 122. Study of the processes and patterns of sedimentation as well as the spatial and temporal distribution of strata. Both ancient and modern depositional environments will be investigated. Three, one-hour lectures; one, three-hour lab; and one or more one-day field trips. 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 290 Field Methods in Geology 2
Prereq.: ESCI 122. Methods and equipment used in field geology, including use of a Brunton compass, outcrop description and sketching, basic mapping techniques, sampling methods, notebook maintenance, use of global positioning system (GPS) technology, geologic maps and cross sections, field safety, and report writing. One, three-hour lab per week. Lab sessions will typically involve outdoor activities. Two or more half-day field trips required. NOTE: Required of all sophomore majors in Earth Science Geology specialization. Fall.
- ESCI 321 Structural Geology 4
Prereq.: ESCI 122 and ESCI 221. Study of the geometry and origin of rock structures that are products of earth deformation. These include folds and faults, as well as microstructures. Emphasis will be placed on recognition and interpretation of structures through field and laboratory studies. Three lectures and one three-hour laboratory per week. One or more one-day field trips are required. Fall. (O)
- ESCI 322 Igneous and Metamorphic Petrology 4
Prereq.: ESCI 122 and ESCI 221. Study of igneous and metamorphic processes and environmental conditions of formation. Application of chemical principles to the origin of igneous and metamorphic rocks. Identification and petrographic analysis of rocks will be emphasized in the laboratory. One or more one-day field trips. Spring. (O)
- ESCI 330 Astrophysics 3
Prereq.: MATH 221, and PHYS 122 or PHYS 126; or permission of instructor. Overview of astrophysical concepts, including electromagnetic radiation, stellar structure and evolution, binary systems, galactic rotation and evolution and cosmology. Spring. (E)
- ESCI 335 Physical Oceanography 3
Prereq.: CHEM 161 and 162 (formerly combined, as CHEM 121), and PHYS 121. Introduction to physical properties and chemical composition of seawater, ocean currents and ocean circulation, and the physical characteristics of the seafloor. Also covered is the interrelationship of the ocean with atmospheric circulation and world climate. Three lectures per week. Spring. (O)
- ESCI 424 Geomorphology 3
Prereq.: ESCI 121 or permission of department chair. Origin and development of land forms in terms of processes of erosion and relation to geologic structure. Three lectures per week. One or more one-day field trips. Fall. (O)
- ESCI 431 Introduction to Hydrogeology 4
Prereq.: ESCI 121, MATH 152 and PHYS 121 or 125 or permission of department chair. Overview of hydrologic and hydrological factors controlling the occurrences and dynamics of groundwater. Groundwater chemistry, quality, and contamination will also be covered. Three lectures and one three-hour laboratory per week. One or one-day field trips. Spring. (E)
- ESCI 442 Weather Analysis and Forecasting 4
Prereq.: ESCI 462 and MATH 152 or permission of instructor. Basics of analysis and forecasting. National Weather Service (NWS) codes and interpretation, graphical analysis techniques, NWS 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 three-hour laboratory per week. Fall. (O)
- ESCI 450 Environmental Geology 3
Prereq.: ESCI 121 or permission of instructor. Geological factors that control or affect human habitat avoiding, or compensating for geological hazards. Applied geology from an environmental perspective that focuses on interactions between humans and Earth surface processes. Study of natural hazards such as river flooding, landslides and debris flows, earthquakes, volcanic eruptions, coastal hazards. Surface and ground water use and pollution are also covered. Fall. (E)
- ESCI 452 Independent Study in Earth Science 1 TO 4
Prereq.: Approved plan of study on 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, 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.
- 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 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; EDEL 322 and EDTE 320. Taken concurrently with EDTE 420. Introduction to 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 Summer-through-Summer Post-Baccalaureate Certification Program in Elementary Education; 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 1 TO 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. Irregular.

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. Thirty hours of major-specific field experience is required. For Art, Music, Technology Ed., Phys. Ed., and TESOL 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. Thirty hours of major-specific field experience is required for History/Social Sciences, Sciences, English, Mathematics, Modern Languages, and Business Education.

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.

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.

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

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.

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 314 Applied Learning Theories (K-12 Programs) 3

Prereq.: Acceptance to Pre-professional or Pre-Certification programs in music education, technology education, or art education. Coreq.: MUS 310, or ART 301, or PE 299 or TE 399. Examination of principles pertinent to teaching and learning.

Emphasizes the use of educational theory and research related to K-12 classroom practices, learning communities, and learners' developmental needs with special emphasis on elementary level. 20 hours of field experience in assigned settings required. Fall.

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 Profession 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

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.

EDTE 498 Individual Study Project 1 TO 3

Prereq.: Permission of department chair. Guided individual study of problems of special interest. May be repeated for up to 3 credits. Open only to advanced students. may not be substituted for professional education program requirements. On demand.

EDUCATIONAL FOUNDATIONS

EDF 415 Educational Foundations 3

Prereq.: Admission to the Professional Program. 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.

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.

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.

EDT 490 **Instructional Computing** 3
 Examination and application of computers and other related technologies to various teaching situations with emphasis on developing skills in developing and evaluating instructional software programs.

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. Lecture/lab meets five hours per week.

EMEC 303 **Electro-Mechanical Converters** 3
 Prereq.: TC 213 or CET 223 or PHYS 122. Analysis of DC and AC single and three-phase motors and generators with focus on performance characteristics and their function in control systems. Lecture/lab meets five hours per week. Fall.

EMEC 323 **Mechatronics** 3
 Prereq.: TE 213 or CET 223 or PHYS 122. 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. Lecture/lab meets five hours per week. 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. Lecture/lab meets five hours per week.

EMEC 333 **Data Acquisition & Control** 3
 Prereq.: TE 213 or CET 223 or PHYS 122. An examination of digital electronic and microprocessor-based techniques for data acquisition and control. Interfacing, signal processing, and computer communications are included. Lecture/lab meets five hours per week. Spring.

EMEC 334 **Mechanisms for Automation** 3
 Prereq.: TE 213. A study of the design and fabrication, diagnosis, and repair of mechanical power systems, including mechanical transmission and control components. Lecture/lab meets five hours per week. Spring.

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. Lecture/lab meets five hours per week. Spring.

ENGINEERING

ENGR 150 **Introduction to Engineering** 3
 Introduction to engineering 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.

ENGR 251 **Engineering Mechanics I - Statics** 3
 Prereq.: ENGR 150 and MATH 221 and PHYS 125. Engineering vector mechanics of equilibrium (statics), covering force resolution and composition, force moments and couples, and equilibrium equations for analysis. Forces and moments acting on structures and machines, centroids, and moments of inertia are evaluated. Fall.

ENGR 252 **Engineering Mechanics II - Dynamics** 3
 Prereq.: ENGR 251. Engineering vector mechanics of non-equilibrium conditions (dynamics), covering the kinematics of motion and kinetics of particles and rigid bodies. Spring.

ENGR 257 **Mechanics of Materials** 3
 Prereq.: ENGR 251. The analysis of simple and combined stress, torsion, flexure, and deflection of beams, continuous and restrained beams, combines axial and bending loads, and columns. Spring.

ENGR 490 **Fundamentals of Engineering (FE)** 3
 Prereq.: ET or ME senior standing or permission of instructor. Further development of topics included in the Fundamentals of Engineering (FE) general exam. Currently, Connecticut Department of Consumer Protection application deadlines are December 1 and July 1, prior to the April and October FE Exam offerings. Spring.

ENGINEERING TECHNOLOGY

ET 233 **Electrical Circuit Analysis** 3
 Prereq.: PHYS 122, MATH 152 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 and Engineering Problem Solving Tools** 3
 Prereq.: ENGR 150 and MATH 119 or 121 or higher or permission of instructor. The application of spreadsheet and MATLAB tools for problem solving, graphing and analyzing engineering data, and programming of formulae, procedures and macros in Excel. Two hours of lecture and one two-hour laboratory per week.

ET 241 **Applied Statics and Strength of Materials** 3
 Prereq.: PHYS 111 or PHYS 112, and MATH 115 or MATH 119 or MATH 121 or MATH 125. Introduction to applied statics and strength of materials with a non-calculus-based analytical and practical approach. Comprehensive explanation of theory and application to architectural, construction, industrial, mechanical and structural problems. May not be used to meet the requirements for a major or minor in Civil, Computer, Manufacturing, or Mechanical Engineering Technology. Fall. Study Area IV

ET 251 **Applied Mechanics I - Statics** 3
 Prereq.: ENGR 150; and PHYS 121 and MATH 136 (may be taken concurrently) or PHYS 125 and MATH 152. Fundamentals of statics, including the resolution and composition of forces and the equilibrium of force systems. 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.

ET 300 **Ergonomics** 3
 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.

ET 357 **Strength of Materials** 3
 Prereq.: ET 251 and PHYS 121 and MATH 136 or MATH 152. 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. Not intended for engineering students.

ET 361 Engineering Technology Instrumentation 3
Prereq.: STAT 104 and ET 357. Study of terminology and analysis of experimental techniques specific to various areas of engineering technology such as strain, displacement, acceleration and material properties. Covers analysis of data, error budgeting, and preparation of professional reports. Two hour lecture and one two-hour laboratory per week.

ET 399 Engineering Economy 3
Prereq.: MATH 125 or MATH 135 or MATH 152. Economic analysis of financing technical or engineering projects and determining costs and justification of improvements as related to the construction and industrial infrastructure facilities. Fall, spring, summer. Study Area II

ET 495 Topics in Engineering Technology 3
Prereq.: ENGR 150 and permission of instructor. Provides an opportunity to present topics of interest not currently covered in the engineering technology curricula.

ENGINEERING TECHNOLOGY—CIVIL

ETC 122 Introduction to CAD for AEC I 3
Prereq.: CET 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.

ETC 353 Introduction to Engineering Surveying 3
Prereq.: MATH 115 or 119. Application of survey instruments to perform measurements for design and construction. Use of survey instruments to measure elevations, distances, and angles; and application of survey mathematics to calculate locations, areas, earthwork, and roadway curves. Lecture/laboratory course. Fall.

ETC 397 Structural Analysis 3
Prereq.: ET 357. Analysis of statically determined structures; influence lines, deflection analysis of trusses, beams and frames; introduction to indeterminate structural analysis using consistent deformation principles and moment distribution; computer applications.

ETC 405 Applied Structural Systems 3
Prereq.: ET 241 or ET 251, and CM 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 & Foundations 3
Prereq.: ET 357. Fundamentals of soil behavior and its use as a construction material. Principles of effective strength, permeability, shear strength, and consolidation. Application to construction problems in shallow and deep foundations, slope stability, retaining structures and excavation drainage. Lecture/lab required. Fall.

ETC 454 Introduction to Transportation Engineering 3
Prereq.: ETC 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
Prereq.: ETC 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.

ETC 458 GPS Mapping for GIS 3
Prereq.: ETC 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.

ETC 470 Structural Steel Design 3
Prereq.: ETC 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.

ETC 471 Reinforced Concrete Structures 3
Prereq.: ET 357 and ETC 397. Applications of design and construction in reinforced concrete and timber structures. Topics on beams, columns, slabs, footings, retaining walls, form work, and pre-stressed concrete fundamentals. Spring.

ETC 472 Timber Structures 3
Prereq.: ETC 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 & Storm Drainage 3
Prereq.: ETC 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.

ETC 476 Environmental Technology 3
Prereq.: CHEM 111 or CHEM 161 and 162 (formerly combined as CHEM 121) or CHEM 121 and 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
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.

ENGINEERING TECHNOLOGY—MECHANICAL/MANUFACTURING

ETM 256 Materials Science 3
Prereq.: MATH 115 or 119 or 121 and CHEM 111 or CHEM 161 and 162 (formerly combined as CHEM 121) or CHEM 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
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 & Tolerancing 3
Prereq.: MFG 121 or MFG 216 or permission of instructor. Interpretation, application, and verification of GD&T aspects of engineering designs per the latest ANSI Y14.5 and ISO. Calculations with toleranced dimensions. Geometric tolerancing concepts, combined tolerances, fits, design of functional gauges and basic measurement setups. [I]

ETM 351 Mechanical Systems in Buildings 3
Prereq.: MATH 115 and MATH 125; or MATH 119; or MATH 121; or permission of instructor. Overview of principles and applications of all basic mechanical systems in buildings such as HVAC, fire protection, and other auxiliary systems. Emphasis placed on the understanding of systems and governing codes and standards. Irregular.

ETM 356 Materials Analysis 3
Prereq.: ENGR 251 or 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
Prereq.: CHEM 161 and 162; MATH 136 or 152; and PHYS 121 or 125.
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.

ETM 360 Computer Aided Planning (CAP) 3
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.

ETM 367 Machine Design 3
Prereq.: ET 252, ET 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
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 trouble shooting computer systems. Irregular.

ETM 423 Applied Feedback Control Systems 3
Prereq.: MATH 136 or MATH 221 and CET 236. 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 454 Applied Heat Transfer 3
Prereq.: ET 354 and ETM 358 or permission of instructor. The principles of conduction, convection, and thermal radiation energy transfer. Conduction through walls, pipes. Forced and free convection, heat exchanges, thermal radiation of energy between surfaces, and the overall transfer of heat. Irregular.

ETM 460 Computer Aided Design and Manufacturing (CAD/CAM) 3
Prereq.: ETM 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. Irregular.

ETM 461 Composites and Plastics Manufacturing Processes 3
Prereq.: ETM 256 or ETM 356, CHEM 111 or CHEM 161 and CHEM 162 (formerly combined as CHEM 121) or CHEM 121. Analytical study of thermoplastic, thermoset, 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
Prereq.: MFG 121 and MFG 216 and ETM 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
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. Irregular.

ETM 464 CAD Solid Modeling and Design 3
Prereq.: ETM 260 and ETM 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.

ETM 466 Design for Manufacture 3
Prereq.: ETM 260 and ETM 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
Prereq.: ENGR 257 or 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.

ETM 468 Composite Design & Analysis 3
Prereq.: ET 357; and ETM 256 or ETM 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. Irregular.

ETM 498 Engineering Technology Senior Project (Capstone) 3
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.

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 of 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 in the general catalog. 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 [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 [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]
- 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. Does not count toward the English major. Cross listed with AFAM 212. Study Area I [L]
- ENG 213 Studies in American Literature 3
An exploration of select subjects, techniques, and themes in American literature. Topics to be announced each semester. Students may not take this course under the same topic more than once. Does not count toward the English major. May be repeated under different topics for a maximum of 6 credits. Study Area I [L]
- ENG 214 Studies in International Literature 3
An exploration of select subjects, techniques, and themes in British and world literature. Topics to be announced each semester. Students may not take this course under the same topic more than once. Does not count toward the English major. May be repeated under different topics for a maximum of 6 credits. Study Area I [I] [L]
- ENG 215 Introduction to Women Writers 3
Introduction to women writers of the world, primarily in the eighteenth, nineteenth, and twentieth centuries. Does not count toward the English major. Study Area I [I] [L]
- ENG 220 Shakespeare 3
Selected tragedies, comedies, and history plays. Study Area 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. Does not count toward the English major. 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. Does not count toward the English major. Study Area I [L]
- ENG 261 Introduction to Fiction 3
A close analysis of the elements, structure, and technique of short stories and novels. Does not count toward the English major. 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. Does not count toward the English major. 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 298 Introduction to Literary Studies 3
Introduction to the basic formal and methodological elements of the study of literature. Intended for English majors.
- ENG 332 Medieval English Literature 3
Old English and Middle English literature, exclusive of Chaucer, from the eighth through the 14th centuries. Most material 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 & Prose 3
British poetry and prose of the earlier 17th century, including Donne, Herbert, Marvell, Bacon, Burton, and Browne.
- ENG 335 Restoration & 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.
- 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.
- 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.
- 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.
- ENG 342 American Realism & 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.
- ENG 344 Contemporary American Literature 3
Study of major American writers from WWII to the present, focusing on historical, cultural, and aesthetic movements of the time. Irregular.
- ENG 345 Modern African-American Literature 3
Study of selected writers, beginning with the Harlem Renaissance. Cross listed with AFAM 345 and AMS 345.
- ENG 347 Latino/a Literature 3
Important U.S. Latina/o literary works in prose, poetry, drama, and essay. Spring. [I] [L]

- 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 participate fully 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. Irregular.
- ENG 377 Creative Writing: Playwriting 3
Introduction to the art and craft of playwriting, emphasizing writing ability and critical reading skills. Students are expected to participate actively 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.
- 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 program.
- ENG 402 Advanced Composition & 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. Not applicable to M.A. in English program.
- 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 404 Fiction for Teachers 3
Secondary English Education majors only. Students are treated as practicing writers who are training to become teachers of literature and writing. Students engage in writing workshops and closely study the elements of fiction, en route to understanding the pedagogy of the teaching of writing. Spring, summer.
- ENG 405 Poetry for Teachers 3
Secondary English Education majors only. Students are treated as practicing poets who will read and discuss traditional and contemporary poetry en route to understanding the pedagogy of teaching poetry in the secondary schools. Summer, fall.
- ENG 406 Teaching the Mechanics of Writing 3
Secondary English Education majors only. Students take an in-depth look at the mechanics of selected literary works to provide a pedagogical foundation for the teaching of mechanics in the secondary classroom. Spring, summer.
- 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 program.
- 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.
- 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 6 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. Fall.
- ENG 462 Shakespeare: Major Tragedies 3
Close analysis of major tragedies and pertinent critical problems. Spring.
- ENG 463 Elizabethan & 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 465 Global Cinema 3
Prereq.: ENG 110. Surveys international cinema after World War II with an emphasis on the fiction feature films of Africa, Asia, and Latin America; also considers major film movements such as the European New Wave and Italian Neo-realism. Irregular. [I]
- ENG 470 The Victorian Novel 3
Representative Victorian novelists with special emphasis on Trollope, Eliot, Dickens, Thackeray, and Hardy. Irregular.
- 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.
- 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.
- 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.
- ENG 481 Digital Literary Studies 3
Prereq.: ENG 110 and ENG 298. Survey of theoretical and applied approaches to digital work in literary and cultural studies. Irregular.
- 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 World Literature and Film 3
Examines the historical, political, and aesthetic relationships of literature and film produced outside the U.S. and Great Britain. Discussion of texts will be frequently structured around arguments from cosmopolitan theory and film theory. This course is not applicable to the M.A. in English, but may count as an elective in other graduate programs. 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. [I]
- 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 B.A. or M.A. in English programs or English minors.
- 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 B.A. or M.A. in English programs or English minors.
- 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
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
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
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 entrepreneurship courses requires admission to the School of Business or permission of the department chair.

- ENT 301 Entrepreneurship and New Venture Creation 3
Prereq.: MKT 295 with a grade of C- or higher, or permission of department chair. 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, both with grades of C- or higher. 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, both with grades of C- or higher. 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, both with grades of C- or higher, or permission of department chair. 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.

EXERCISE SCIENCE

- EXS 110 Concepts in Fitness 2
Formerly PE 110. Examines the general concepts of health-related physical fitness in a lecture/laboratory setting. Open to exercise science and athletic training students only.
- EXS 112 Introduction to Athletic Training 2
Formerly PE 112. Acquaints student with the academic and clinical requirements by CAATE accreditation BOC certification as an entry-level athletic trainer and state licensure. Introduces risk management, injury prevention, medical conditions and disabilities, principles of athletic related injuries. Fall.
- EXS 113 Introduction to Exercise Science 2
Formerly PE 113. 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.

EXS 201 Teaching Aerobics: Dance, Step and Aqua 2
Formerly PE 201. 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.

EXS 210 Personal and Community Health 2
Formerly PE 210. Prereq.: BIO 111 or BMS 111 or BIO 121 (any with 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.

EXS 213 Anatomy and Physiology in Human Performance I 3
Formerly PE 213. Prereq.: BIO 111 or BIO 121 or BMS 111 (any with C- or higher). Systemic approach to human body. Emphasis on structure, function and histology of skeletal, integumentary, articular, muscular, and nervous systems. Laboratory topics: movement analysis, growth and development, simulated dissections and applications. Open to physical education, exercise science, and athletic training students only.

EXS 214 Anatomy and Physiology in Human Performance II 3
Formerly PE 214. Prereq.: EXS 213 (formerly PE 213) and, CHEM 111 or CHEM 150, or CHEM 161 and 162, (any with a grade of C- or higher). Systemic approach to human body. Emphasis on structure and function of muscular, cardiovascular, respiratory, digestive, urinary, reproductive, and endocrine systems. Laboratory topics: disease, exercise considerations and applied data analysis. Open to physical education, exercise science, and athletic training students only.

EXS 215 Physiological Aspects of the Human Performance of the Aging 3
Formerly PE 215. Prereq.: EXS 214 (formerly PE 214). This course will stress the physiological responses of exercise and the physiological rationale for lifelong physical activities for the aged. Fall.

EXS 216 Kinesiology 3
Formerly PE 216. Prereq.: EXS 214 (formerly PE 214) and PHYS 111, both with grades of C- or higher. Analysis and application of principles of mechanics as they relate to motor skills in physical activity.

EXS 217 Care and Treatment of Athletic Injuries 3
Formerly PE 217. Prereq.: EXS 213 (formerly PE 213) with a grade of C- or higher. Covers risk management, injury prevention, medical conditions and disabilities, acute care of injuries and illnesses. Students perform prevention/protective strapping, fitting protective equipment and devising special padding. Includes 50 hours observation for athletic training majors. Open to exercise science and athletic training students only.

EXS 218 Scientific Basis for Athletic Training 3
Formerly PE 218. Prereq.: EXS 217 (formerly PE 217). Focus on concepts, theories, and techniques necessary for orthopedic clinical examination, diagnosis of athletic injuries, orthopedic screening and posture assessment. Basic understanding of mechanism and pathology of injury will be emphasized. Spring.

EXS 307 Human Nutrition 3
Formerly PE 307. Prereq.: CHEM 111 or CHEM 150, or CHEM 161 and 162 (any with grade of 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.

EXS 311 Stress Management 3
Formerly PE 311. Prereq.: EXS 210 (formerly PE210) with a grade of C- or higher, and 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.

EXS 315 Practicum in Athletic Training I 2
Formerly PE 315. Prereq.: EXS 217 (formerly PE 217), admission to the Professional Program in Athletic Training, and current EMT-B Certification (State of CT or National Registry). First aid, evaluation, taping, wrapping, design and application of protective equipment, preparing teams for competition. Minimum five, 3-

week CCSU sport or training facility rotations required. Includes weekends, unusual hours, holidays, and off-campus observations.

EXS 316 **Practicum in Athletic Training II** 2
Formerly PE 316. Prereq.: EXS 218 (formerly PE 218); EXS 315 (formerly PE 315); admission to the Professional Program in Athletic Training, and current EMT-B Certification (State of CT or National Registry). Includes evaluating athletic injuries, establishing treatments, rehabilitation plans, maintaining medical records. Minimum five, 3-week CCS sport or training facility rotations required. includes weekends, unusual hours, holidays, and off-campus observation.

EXS 317 **Therapeutics in Athletic Training** 3
Formerly PE 317. Prereq.: EXS 217 (formerly PE 217). Introduction to the theories and techniques of manual muscle testing, muscle length testing, goniometry, and isokinetic testing. Emphasizing planning, implementing, documenting progress of therapeutic exercise programs for the rehabilitation and reconditioning of injuries and illnesses. Fall.

EXS 319 **Practicum in Athletic Training III** 2
Formerly PE 319. Prereq.: EXS 316 (formerly PE 316) and EXS 317 (formerly PE 317) and admission to the Professional Program in Athletic Training, and current EMT-B Certification (State of CT or National Registry). Preseason screening, physicals, medical conditions, neurological evaluations, advanced rehabilitation skills. Minimum five, 3-week CCSU sport or training facility rotations required. Includes weekends, unusual hours, holidays, and off-campus observation.

EXS 331 **Measurement and Evaluation in Exercise Science** 3
Formerly PE 331. Prereq.: STAT 104. Methods of measurement and evaluation in exercise science. Emphasis on research methodology including choosing tests, calibrating equipment, testing administration, calculating statistics and evaluating results. Spring.

EXS 332 **Psychological Aspects of Sport** 3
Formerly PE 332. Psychological aspects of sport participation are reviewed with emphasis on coach and player issues. Topics will include burn out, stress management, arousal, and 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. (O)

EXS 375 **Training for Sport Performance** 3
Formerly PE 375. Prereq.: EXS 214 (formerly PE 214) with a grade of 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 exercise science, and athletic training majors only.

EXS 376 **Theories of Strength Training and Conditioning** 2
Prereq.: EXS 214 (formerly PE 214), EXS 216 (formerly PE 216), EXS 375 (formerly PE 375). Theoretical and practical knowledge for the development of conditioning programs. Includes training variation, program design, and organization and administration of facilities. EXS 375 and EXS 376 prepare students for the NSCA CSCS certification exam. Open to exercise science majors only or permission of instructor. Spring.

EXS 380 **Leadership in Exercise and Wellness** 2
Formerly PE 380. Prereq.: EXS 210 (formerly PE 210) and EXS 375 (formerly PE 375) both with a grade of C- or higher. Open to exercise science students only. 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. Spring.

EXS 383 **Recreation and Physical Activity for the Aging** 3
Formerly PE 383. Prereq.: EXS 214 (formerly PE 214) and EXS 375 (formerly PE 375) both with a grade of C- of higher. Introduction to the needs of an aging population as applied to the provisions of recreation and physical activity in community and institutional settings. Students will apply appropriate activities and methods of teaching recreation and physical activity to older adults. Required for exercise science majors only. Spring.

EXS 398 **Exercise for Special Populations** 3
Formerly PE 398. Prereq.: EXS 214 (formerly PE 214) and EXS 375 (formerly PE 375) both with C- or higher. Designed to modify exercise programs and to provide

all individuals the opportunity to participate in physical activity programs. Emphasis is on obesity, cardiac conditions, diabetes, physical disabilities, asthma, and women who are pregnant. Fall.

EXS 410 **Exercise Physiology** 3
Formerly PE 410. Prereq.: EXS 214 (formerly PE 214) with a grade of C- or higher and acceptance into the 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 majors only. Fall, spring, summer.

EXS 411 **Organization and Management of Health Promotion Programs** 3
Formerly PE 411. 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.

EXS 412 **The Application of Tort Law to Physical Activity** 3
Formerly PE 412. Prereq.: Junior or 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.

EXS 413 **Organization and Administration of Athletic Training** 2
Formerly PE 413. Prereq.: CS 115 and admission to the Professional Program in Athletic Training. Theories and skills to develop, administer, and manage facilities/venues that provide health care to athletic populations. Emphasizes organizing pre-participation physicals, drug testing, medical documentation, human resources, facility design, budgeting, legal, and public relations issues. Spring. (O)

EXS 414 **Physiology of Sport and Exercise** 3
Formerly PE 414. Prereq.: EXS 214 (formerly PE 214) and EXS 307 (formerly PE 307) both with a grade of C- or higher, and acceptance into the Professional Program in either Athletic Training or Exercise Science. Study how the body responds to acute and chronic bouts of exercise and to further apply these responses to training the athlete. Fall.

EXS 415 **Fitness Assessment and Exercise Prescription** 3
Formerly PE 415 Prereq.: EXS 307 (formerly PE 307) and EXS 331, and EXS 414 (formerly PE 414) and admission to the Professional Program in Exercise Science or acceptance to M.S., Physical Education. Laboratory and field tests used for assessing physical fitness components. Test results are used in developing individualized exercise prescriptions to improve cardiorespiratory fitness, muscular fitness, body composition, and flexibility. Open to exercise science and athletic training students only.

EXS 421 **Pharmacology in Sports Medicine** 3
Formerly PE 421. Prereq.: EXS 307 (formerly PE 307) and admission to the Professional Program in Athletic Training or Exercise Science. Basic principles of pharmacology, pharmacokinetics, commonly prescribed therapeutic medications in the physically active population, and legal issues. Common prescription and non-prescription medications, routes of administration, indication and contraindications, precautions, and adverse reactions. Spring.

EXS 425 **Implementation and Evaluation of Health Promotion Programs** 3
Formerly PE 425. Prereq.: EXS 307 (formerly PE 307) and EXS 410 (formerly PE 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. Fall.

EXS 440 **Therapeutic Modalities in Athletic Training** 4
Formerly PE 440. Prereq.: EXS 218 (formerly PE 218) or EXS 317 (formerly PE 317). Physiological effects of therapeutic modalities on orthopedic injuries. Topics include pain, pain control, modality principles, indications, and contradictions. Emphasis on safe operation and application, manual therapy, and foot biomechanics. Includes one, one-hour laboratory. Fall.

EXS 445 Internship in Athletic Training 6
Formerly PE 445. Prereq.: EXS 319 (formerly PE 319) and EXS 440 (formerly PE 440), and admission to the Professional Program in Athletic Training and current EMT-B Certification (State of CT or National Registry). Minimum 320 hours of off-site clinical experience directly supervised by an Athletic Clinical Instructor. May occur in a sports medicine or corporate wellness clinic, secondary school, or university setting. Includes weekends, unusual hours, holidays.

EXS 450 Practicum in Exercise Science 3
Formerly PE 450. Prereq.: EXS 375 (formerly PE 375) with a grade of C- or higher; EXS 415 (formerly PE 415); EXS 425 (formerly PE 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. Current CPR and first aid certification required. Fall, spring, summer.

EXS 470 Internship in Exercise and Health Promotion 6
Formerly PE 470 Prereq.: EXS 450 (formerly PE 450) and admission to the degree program in Physical Education or graduate status. Off-campus practical experience. Includes wellness/health promotion, corporate fitness, YMCA, strength and conditioning, sports medicine, and cardiac rehabilitation. Offers opportunities to apply fundamental concepts. Current CPR and first aid certification required. Fall, spring, summer.

FINANCE

Note: Enrollment in 300- and 400-level finance courses requires admission to the School of Business or permission of the department chair.

FIN 295 Managerial Finance 3
Prereq.: AC 211; one of the following: MATH 123, 124, 125, 135, 152, or 221; and one of the following: STAT 200, 104, 215, 314, or 315; all with grades of C- or higher. Basic course in business finance. Topics include the financial environment, analysis of financial statement, valuation of corporate 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.

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.

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.

FIN 321 Insurance 3
Prereq.: FIN 295 with grade 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.

FIN 330 International Finance 3
Prereq.: FIN 295 (C- or higher). A study of the principles and practices of 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 and the international financial markets. [I]

FIN 350 Venture Capital Financing 3
Prereq.: FIN 295 with a grade of C- or higher. Introduces students to: venture capitalist and private equity funds, sources of venture capital, start-ups and required business plans, and the process of taking companies public.

FIN 400 Advanced Managerial Finance 3
Prereq.: FIN 301, 310 and 320 (with grades of C- or higher). 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.

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.

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 422 Risk Management 3
Prereq.: FIN 301, FIN 310, FIN 320, and FIN 321 (all with grades of C- or higher), or permission of instructor. Examines applications and theory of strategic and financial market choices in the management of firm risk. Students develop competency in assessing and measuring the risk of a firm as well as the use of risk management tools.

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 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.

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.

FIN 498 Finance Seminar 3
Prereq.: Permission of instructor. Course content varies.

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 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.

FIRST YEAR EXPERIENCE

FYE 101 First Year Experience 1
Prereq.: First-year, first-time status. Students will discuss issues and learn about campus resources relevant to first-year students as they make the transition from high school to college learning environments. Sections of this course will be complementary of specific sections of designated first-year experience courses for which the student must register concurrently.

FIRST YEAR SEMINAR

FYS 101 First Year Seminar - Arts and Humanities 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Arts and Humanities for incoming first-year students. Topics will vary by semester according to interests of faculty teaching each semester. Study Area I

FYS 102 First Year Seminar - Social Sciences 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Social Sciences for incoming first-year students. Topics will vary by semester according to interests of faculty teaching each semester. Study Area II

FYS 103 First Year Seminar - Behavioral Sciences 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Behavioral Sciences for incoming first-year students. Topics will vary by semester according to interests of faculty teaching each semester. Study Area III

FYS 104 First Year Seminar - Natural Sciences 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Natural Sciences for incoming first-year students. Topics will vary by semester according to interests of faculty teaching each semester. Study Area IV

FYS 105 First-Year Seminar - Communication Skills 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Communication Skills for incoming first-year students. Topics will vary by semester according to the interest of faculty teaching each semester. Skill Area I

FYS 106 First-Year Seminar - Mathematics and Computer Science 2 TO 4
Prereq.: First-year, first-time status. Must register for specified section of FYE 101 concurrently. Series of topical seminars in Mathematics and Computer Science for incoming first-year students. Topics will vary by semester according to interests of faculty teaching each semester. Skill Area II

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

FR 125 Intermediate French I 3
Prereq.: Three years of high school French or 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 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 126 or 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. Spring. 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 225 or 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 & Culture 3
Prereq.: FR 225 or 226 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 225 or FR 226 or 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 225 or 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 & 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. Irregular. (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 & 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. Course may be repeated one time with a different topic. Spring. 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 130 Introduction to Geography Information Science 3
Introduction to basic within the fields of cartography, geodesy, spatial statistics, remote sensing, and geographic information systems. Study Area II

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/location 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

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 & 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.

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.

GEOG 333 Political Geography 3
Geographical bases of political organization, conflict and international relations. Emphasis will be on power and conflict in the regional framework. Irregular. Study Area II [I]

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 Geographic Information Systems 3
Prereq.: GEOG 130 or 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.

GEOG 414 Teaching Methods in Geography 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 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 super-

vision 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. Cross listed with LAS 434. 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. Cross listed with IS 436 and LAS 436. Spring. [I]
- GEOG 437 China 3
Physical, economic, political, and historical geography of China. Special consideration of her population, resources, agricultural growth, and industrial expansion. Discussion of the geographic bases and the expansion of the Chinese State and the contemporary foundation of Chinese national power. Fall. (E) [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.
- 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 & Regional Planning 3
Prereq.: GEOG 241 or permission of instructor. Philosophies, theories, and principles involved in planning of regions and urban areas. Fall. (E)
- 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 and the N.I.S. Its contemporary political economy viewed in a 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 manufacturing may influence the spatial aspects of tourist behavior and industry development strategies. Fall.
- 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. Spring.
- 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 466 Remote Sensing 3
Prereq.: GEOG 266 or GEOG 378. Computer analysis and interpretation of satellite remote sensing data for inventorying, mapping, and monitoring earth's resources. Spring. (O)
- 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 470 Geography of Health & Disease 3
Prereq.: GEOG 220 or permission of instructor. Investigation of health-related topics using geographical frameworks and methodological techniques. Themes include disease distribution, health care access, and HIV/AIDS in a global context. Cross listed with IS 470. Spring. (O)
- 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. Cross listed with MKT 471. 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.

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.

GEOG 479 **Geographic Information Systems Applications** 3
 Prereq.: GEOG 378. Advanced study of applications in geographic information systems. Applications will vary but will include urban/ regional planning, natural resources management, and public safety. May be taken twice for credit under different content. Spring. (E)

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

GER 125 **Intermediate German I** 3
 Prereq.: One year of college German or equivalent. Grammar, including subjunctive and passive, composition and conversation. 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. Intensive practice in oral and written German expression, as well as grammar review and reading. No credit will be given to students with credit for more advanced course work in German except by permission of department chair. Spring. Skill Area III [I]

GER 225 **German Composition & Diction** 3
 Prereq.: GER 126 or permission of instructor. Training in self-expression by means of frequent composition and conversation. 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 304 **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 305 **Literary Masterpieces since 1800** 3
 Prereq.: GER 225 or GER 226 (either 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 225 or GER 226 (either 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 225 GER 226 (either 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 225. Additional practice in written and oral expression. Fall. [I]

GER 336 **Advanced Structure & Idiom** 3
 Prereq.: GER 226. Additional practice in idiomatic usage and verbal fluency. Spring. [I]

GER 379 **19th Century German Literature** 3
 Prereq.: GER 305 or equivalent. Literature of Romanticism, Realism, and Naturalism. Spring. (O) [I]

GER 380 **20th Century German Literature** 3
 Prereq.: GER 305 or equivalent. Literature of Impressionism, Expressionism, Neue Sachlichkeit, and other modern movements. Fall. (E) [I]

GER 451 **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]

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). Lecture/lab meets 5 hours per week. Fall. Skill Area IV

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). Lecture/lab meets 5 hours per week. Skill Area IV

GRT 222 **Electronic Site Creation for Graphics Technology** 3
 Prereq.: GRT 112 or permission of department chair. The integration of graphic technology applications and the study of electronic visual images. Emphasis will be on-site creation for the internet. Lecture/lab meets 5 hours per week. Irregular.

GRT 232 **Introduction to 3D Animation Technology** 3
 Prereq.: ETM and GRT 112 or MFG 121 or ETC 122. Wire frame modeling applications will be introduced. Topics include the creation of basic geometric shapes; editing the model structure; animating and rendering the animation. Lecture/lab meets 5 hours per week. Fall. (E)

GRT 242 **Introduction to Graphic Design & Color** 3
 Prereq.: GRT112 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). Lecture/lab meets 5 hours per week. Fall.

GRT 332 **Advanced 3D Modeling & Animation Technology** 3
 Prereq.: GRT 232. 2D and 3D animation methods: project planning, scripting, storyboards, advanced modeling, lighting, materials mapping, and motion. Lecture/lab meets 5 hours per week. Spring. (O)

GRT 342 **Screen Printing & 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). Lecture/lab meets 5 hours per week. Spring.

GRT 352 **Graphic Typography** 3
 Prereq.: GRT 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 content, purpose, space, audience, and method of printing. Desktop publishing will be examined. Lecture/lab meets 5 hours per week. Spring. (E)

GRT 362 Estimating & Scheduling for Graphics Technology 3
Prereq.: GRT 212 or permission of department chair. 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. Lecture/lab meets 5 hours per week. 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. Lecture/lab meets 5 hours per week. On demand.

GRT 411 Instructional Methods in Animation Graphics 3
Prereq.: CET 113 or MFG 121 or ETC 122 or permission of chair; for graduate students, admission to the M.S. Technology Education program. Using animation software, digitizing equipment, and paint/draw programs to produce two- and three-dimensional presentations, slide shows, and videotapes. Lecture/lab meets 5 hours per week. Irregular.

GRT 412 Instructional Methods in Computer-Aided Publishing 3
Prereq.: CET 113 or permission of department chair; for graduate students, admission to the M.S. Technology Education program. 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. Lecture/lab meets 5 hours per week. Irregular.

GRT 432 Customization & Development in Animation Technology 3
Prereq.: GRT 332. Advanced imaging, development, and documentation of 3D animation models. Lecture/lab meets 5 hours per week. Fall. (O)

GRT 442 Print Production 3
Prereq.: GRT 212. Applied study of pre-production, production, and post-production in the printing industry. Lecture/lab meets 5 hours per week.

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). Lecture/lab meets 5 hours per week.

GRT 472 Digital & 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. Lecture/lab meets 5 hours per week. Open to all students. Fall.

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. Study Area II [I]

HIST 122 World Civilization II 3
World civilization from the 17th century. Study Area II [I]

HIST 161 American History to 1877 3
Political, economic, social, and cultural development to 1877. No credit given to students who have credit for HIST 261. Study Area II

HIST 162 American History from 1877 to present 3
Political, economic, social, and cultural development since 1877. No credit given to students who have credit HIST 262. Study Area II

HIST 231 Ancient Mediterranean World 3
Cultures of ancient Near East and Mediterranean. Study Area II [I]

HIST 232 Medieval Europe 3
European history and institutions from the fall of Rome to 1300. Study Area II [I]

HIST 233 Renaissance and Enlightenment Europe 3
European history from the fifteenth to eighteenth centuries. Topics include the Renaissance, the Reformation, European Expansion, the Scientific Revolution, and the Enlightenment. Study Area II

HIST 234 Modern Europe 3
European history from the 18th century to the present. Study Area II

HIST 251 East Asia to 1800 3
Political, cultural, economic, and social history of East Asian countries. Note: No credit will be given to students who have credit for HIST 351. Fall. (O) Study Area II [I]

HIST 252 East Asia since 1800 3
Continuation of HIST 251, with additional emphasis on contemporary, foreign, and colonial politics related to East Asia. NOTE: No credit given to students who have credit for HIST 352. Spring. (O) Study Area II [I]

HIST 253 History of the South Pacific 3
Begins with the history of the Tahitians, Hawaiians, and Maori, and Australian aborigines before contact with Europe, examining their oral traditions. Also examines exploration and cultural contact between the peoples of Polynesia and Australia and Anglo-Europeans. Fall. (O) Study Area II

HIST 271 Introduction to African History and Culture 3
Focuses on some of the enduring aspects of African material culture and technologies. Also examines social and political issues related to African civilization over time. Irregular. Study Area II [I]

HIST 277 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. NOTE: No credit given to student who have credit for HIST 377. Fall. (O) Study Area II [I]

HIST 278 History of Christianity II 3
Christianity from 1450 A.D. to present. Continuation of Christianity I. NOTE: No credit given to students who have credit for HIST 378. Spring. (O) Study Area II [I]

HIST 281 History of Latin America to 1823 3
Social, economic, political, and cultural development of Latin American countries to 1823. NOTE: No credit give to students with credit for HIST 381. Cross listed with LAS 281. Fall. (O) Study Area II [I]

HIST 282 History of Latin America since 1823 3
Social, economic, political, and cultural development of Latin American countries since 1823. NOTE: No credit given to students with credit for HIST 382. Spring. (O) Study Area II [I]

HIST 291 Modern Middle East 3
Formerly HIST 472. Historical developments in the 20th century with a special emphasis on political, social, and economic conflicts. NOTE: No credit will be given to students with credit for HIST 472. Fall. Study Area II [I]

- HIST 292 History of Judaism 3
Formerly HIST 473. Analysis of major themes in the historical development of Judaism from ancient times to the present. NOTE: No credit will be given to students with credit for HIST 473. Spring. Study Area II [I]
- HIST 301 The Historical Imagination 3
NOTE: History minors must request a major override from the department chair prior to registration. 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 316 History of the American West to 1890 3
Surveys the history of the American West and its people to 1890. Provides a general structure of the American West and its political, economic, and social history with emphasis on the interaction of diverse cultures including Native Americans, Hispanics and Asians as America expanded its borders. The course will compare popular conceptions of the historical American West to the region's realities, diversity, and complexity.
- HIST 317 History of the American West, 1890 to Present 3
Surveys the history of the American West and its people from 1890 to the 21st century. Provides a general structure of the American West and its political, economic, and social history with emphasis on the interaction of diverse cultures including Native Americans, Hispanics, and Asians in areas known today as the Plains, Southwest, and Northwest. Material will also examine the West and its myths as central to American culture and popular culture. Spring.
- HIST 319 Race, Ethnicity and Migration in the U.S. 3
A social and cultural history of the U.S. that explores race, ethnicity, and migration in the formation of American identities. From colonial period to the present. Fall.
- HIST 321 Political History of the United States, 1776-1876 3
Focuses on the development of political parties in the United States. Examines the contrasting economic, social, and foreign policy views of the parties, with special attention to the intersection of ideology and partisanship. Fall.
- HIST 322 Political History of the United States, 1877 to Present 3
Focuses on the growth of political parties in the United States. Examines the contrasting economic, social, and foreign policy views of the parties, with special attention devoted to the intersection of ideology and partisanship. Spring.
- HIST 323 Native Americans of the Eastern Woodlands, 1520-Present 3
Examines North America's indigenous peoples living east of the Mississippi River at the time of European contact, including the Five Civilized Tribes, the Iroquois Confederacy, and the First Nations of New England. Fall. (E)
- HIST 324 Native Americans of the West, 1500-Present 3
Examines North America's indigenous peoples living west of the Mississippi River at the time of the European contact, from the Central American region to the Northwest. Explores the history of Aztec civilizations, Southwestern tribes, Plains Indians and Northwest tribes. Irregular.
- HIST 325 Anglo-American Legal and Constitutional History, 1550-1789 3
Legal ideas, statutes and cases that revolutionized England and its colonies from the Tudor period to the United States Constitution. Fall. (O)
- HIST 326 Anglo-American Legal and Constitutional History, 1789-Present 3
Analyzes the change from formalism to substantive due process, landmark legal cases, and the emergence of new legal theories in England, North America, and Australia. Allows the United States' legal system to be viewed in a comparative context. Spring. (O)
- HIST 327 History of American Consumer Culture 3
Examines the development of consumer society in the United States and its relationship to economics, politics, and culture. Paying attention to the dynamics of race, class, and gender, this course explores the experiences of ordinary Americans as they have embraced, shaped, and resisted materialism in their lives. Possible topics include the rise of department and chain stores, advertising, mass-production, the leisure industry, suburbanization, consumer boycotts, and globalization. Spring.
- HIST 328 History of American Foreign Relations 3
Study of the United States in the world from 1776 to the present through examination of domestic, international, diplomatic, and military influences. Fall.
- HIST 329 History of Working America 3
Origins and development of the American working class from the colonial period to the present. Spring.
- 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. Cross listed with WGSS 330. Fall.
- 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. Cross listed with WGSS 331.
- 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. Cross listed with WGSS 335. Spring.
- 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 353 History of Modern China 3
Formerly HIST 453. China during the late Ch'ing, Republican and Communist periods. No credit given to students with credit for HIST 453. Spring. (E)
- HIST 354 History of Modern Japan 3
Formerly HIST 454. Japan during the 19th and 20th centuries. NOTE: No credit given to students who have credit for HIST 454. Fall. (E) [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 369 African-American History 3
Survey of African-American life from the slave trade through the 1970s. Fall. (E)
- HIST 373 The African Diaspora in the Caribbean since 1500 3
The plantation system, capitalism and slavery, the decolonization process in general, gender relations, structural adjustment and debt, outstanding leaders and role models in Afro-Caribbean communities and cultural norms and values. Irregular. [I]
- 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 379 History of Poland: from the Piasts to Partition, 966-1795 3
The medieval Kingdom, the Polish Lithuanian Commonwealth, and the Partitions. Fall. (O) [I]
- HIST 380 Modern Poland 3
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 383 History of Brazil 3
Surveys the history of Latin America's largest country from its pre-Columbian roots to the present. Topics include: Indigenous Peoples, African enslavement, European immigration, and economic development. Irregular.
- HIST 384 Portugal in Brazil 3
History of Portugal as it relates to the Portuguese Seabourne empire and Brazil. Topics include the medieval period, the colonization of Brazil and conquest of indigenous populations by the Portuguese; the introduction of sugar and African slavery to Brazil; the Portuguese colonial government, and Brazilian independence. Fall.
- 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 411 Atlantic World, 1500-1880 3
Prereq.: HIST 301 or permission of instructor. Explores the history of the Atlantic World from 1500-1880. Topics can focus on North America, Latin America, Europe and Africa as they interacted in such activities as trade, slavery, the exchange of ideas, revolution, and colonialism. Fall.
- HIST 412 The Transformation of Crime and Punishment 3
Prereq.: HIST 301 or permission of instructor. Explores major changes over time in the legal history of crime and punishment in England, Australasia, and Europe between 1600 and 1975. Spring. (O)
- HIST 413 Myth, Law, and History 3
Prereq.: HIST 301 or permission of instructor. Introduces students to a variety of readings in the mythological and historical beginnings of law and allows students to analyze how law and history have intersected in both the legal and historical worlds. Topics can include the Mosaic law, Anglo-American law, and the history of legal literature from cases to novels. Spring. (E)
- HIST 414 The Progressive Watershed 3
Prereq.: HIST 301 or permission of instructor. Focuses upon significant American political, economic and social developments in the late nineteenth and early twentieth centuries. The Progressive era will receive major attention. Irregular.
- HIST 415 The Cold War 3
Prereq.: HIST 301 or permission of instructor. Examines the origins, conduct, and consequences of the Cold War from American international perspectives. Topics include diplomatic, military, social, and cultural developments. Irregular.
- HIST 416 The Vietnam Wars, Home and Abroad 3
Prereq.: HIST 301 or permission of instructor. Examines the Vietnam War from a variety of perspectives. Topics will include the process of American involvement, military campaigns, Vietnamese strategy, anti-war movements, national memories of Vietnam, and how the war has shaped American culture and politics since 1975. Irregular.
- HIST 420 Imperialism 3
Prereq.: HIST 301 or permission of instructor. Explores the nature and experience of imperialism in a variety of countries and a number of time periods. Irregular.
- HIST 431 Ancient Northeast Africa 3
Prereq.: HIST 301 or permission of instructor. Aspects of the history and legacies of ancient northeast Africa with focus upon Nubia, Egypt, and Aksum. Irregular.
- HIST 432 History of South Africa 3
Ancient South Africa; the creation of settler communities in the 17th century; the impact of minerals in the 19th century; apartheid and its demise; and ongoing democratization processes. Fall. (O)
- HIST 433 History of Ancient Greece 3
Prereq.: HIST 301 or permission of instructor. Greek institutions from the Mycenaean period to the accession of Constantine. Fall.
- HIST 434 History of Ancient Rome 3
Prereq.: HIST 301 permission of instructor. Roman institutions from the regal period to the reign of Constantine. Spring.
- HIST 435 History of Early Medieval Europe 3
Prereq.: HIST 301 or permission of instructor. The Late Roman empire to the 11th century. Spring. (E)
- HIST 436 History of Later Medieval Europe 3
Prereq.: HIST 301 or permission of instructor. The Crusades to the Great Schism. Spring. (O)
- HIST 441 Renaissance & Reformation 3
Prereq.: HIST 301 or permission of instructor. History of Europe during the Age of Transition and the Era of the Religious Wars, 1300-1648. Fall. (E)
- HIST 442 Absolutism and Enlightenment in Europe 3
Prereq.: HIST 301 or permission of instructor. Social, economic, political, and cultural forces of the period in relation to formation of modern society and government. Spring. (E)
- HIST 443 Revolution and Reformation in Europe 3
Prereq.: HIST 301 or permission of instructor. Political, economic, and social institutions in relation to rise of liberalism, nationalism, socialism, and imperialism. Fall.
- HIST 444 Mass Politics and Total War in Europe 3
Prereq.: HIST 301 or permission of instructor. National and international problems of European states. Spring.
- HIST 445 European Intellectual History, 1750-1870 3
Prereq.: HIST 301 or permission of instructor. Main currents of European thought and culture from 1750 to 1870. Fall. (E)
- HIST 446 European Intellectual History, 1870-Present 3
Prereq.: HIST 301 or permission of instructor. Main currents of European thought and culture from 1870 to the present. Spring. (E)
- HIST 447 History of the Soviet Union 3
Prereq.: HIST 301 or permission of instructor. Study of the rise and fall of Soviet Communism, 1917-1991. Irregular.
- HIST 448 Stalin and Stalinism 3
Prereq.: HIST 301 or permission of instructor. Historical study of Stalin and Stalinism stressing multidisciplinary perspectives, considered in the light of the collapse of the Soviet Union. Irregular.
- HIST 455 Historical Representation in Latin America 3
Prereq.: HIST 301 or permission of instructor. Throughout the twentieth century, intellectuals and artists have addressed historical and political issues in their work. This course studies that phenomena through historical documents, historical monographs, literary and artistic works using the methodology of the social history of ideas. Irregular.
- HIST 458 United States Sectionalism: The Clash of Cultures 3
Prereq.: HIST 301 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 permission of instructor. Comparative history of slavery in Latin America, the Caribbean, and the United States from 1492-1888. Fall. (O)

HIST 465 Economic History of the United States 3
Prereq.: HIST 301 or permission of instructor. American economy from its agricultural beginnings through stages of its commercial, industrial, and financial growth.

HIST 466 History of American Technology 3
Prereq.: HIST 301 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 permission of instructor. Political, economic, social, and cultural developments in Black America since 1900. Cross listed with AFAM 469. Fall. (O)

HIST 470 Topics in Middle-Eastern History 3
Prereq.: HIST 301 or permission of instructor. Focuses upon one specific topic of modern Middle-Eastern history. The topic chosen will vary but will be within the time period of the twentieth and twenty-first centuries. Possible topics (among others) are: U.S. policy (or the lack of it) in the Middle East, Israel and Palestine, oil and the Gulf, the post-Saddam Hussein era in Iraq, religious extremism in the Middle East and the Gulf states. Irregular.

HIST 474 History of the Arab-Israeli Conflict 3
Prereq.: HIST 301 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.

HIST 476 African History through Film 3
Prereq.: HIST 301 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.

HIST 481 The Jews of Poland 3
Prereq.: HIST 301 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)

HIST 482 The Polish-American Immigrant and Ethnic Community 3
Prereq.: HIST 301 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)

HIST 490 Senior Seminar 3
Prereq.: 24 credits in history including HIST 301 and 6 credits at the 400 level. Senior seminar. Undergraduate history majors only.

HIST 492 Public History Intern Experience 4
Prereq.: Permission of instructor. Gives students practical experience in museums, historical societies, and other public history institutions. Students will gain work experience while participating in the practice of public history making. Accepted students are assigned to work in a public history institution for 110 hours and will also participate in a classroom seminar. Not available for graduate credit. Spring.

HIST 493 Directed Readings in History 3
Prereq.: HIST 301 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 494 Directed Readings in Non-Western History 3
Prereq.: HIST 301 and 6 credits of 400-level history courses; or permission of instructor. Individual program of study for students with special interests in non-Western history, including the study of Asia, Africa, and Latin America. Topics to be developed in consultation with individual faculty member. 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 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.

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 & 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 & 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.: Honors Program participant. Selected topics in comparative cultures from western and world perspectives. Spring. Study Area III [I]

HON 440 Writing & 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 & Research III: Honors Thesis 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 & 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
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 310 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 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 Systems 3
An introduction to the design, planning, management and control of production systems. Topics include: capacity planning, material management, plant layout, scheduling and production information systems.

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 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.: Completion of 75 credits or permission of department chair. Provides students with a supervised opportunity to work in an industrial environment directly related to their program. Written technical reports and program assessments 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 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 414 Accident Investigation & Loss Control 3
Loss control philosophy and techniques and investigation strategies. Background information and specific techniques 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 & Prevention 3
Measures related to safeguarding human life and preservation of property in prevention, detection, extinguishing fires. Spring.

IT 432 Worker/Supervisor Relations 3
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 HAZWOPPER & 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 Six Sigma Quality 3
Prereq.: STAT 104 or permission of department chair. 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
Overview of the industrial robot. Introduces the student to the science of flexible automata. Emphasizes features, capabilities, programming, selection and applications of industrial robots.

IT 490 Advanced Six Sigma Quality 3
Prereq.: IT 464. Planning techniques of Failure Mode and Effects Analysis (FMEA), Quality Function Deployment (QFD), and Design of Experiments (DOE) will be presented. Spring.

INTENSIVE ENGLISH LANGUAGE PROGRAM

IELP 101 Pre-EAP (English for Academic Purposes) 0
Listening and Speaking
Prereq.: IELP placement test. Sixteen-week/160 hour pre-academic introduction to listening, speaking, and grammar skills for non-native speakers of English. In this course, which will be divided into two, eight-week sessions, students will develop the basic communication and survival skills necessary to begin studying English for academic purposes.

IELP 102 Pre-EAP (English for Academic Purposes) Reading and Writing 0

Prereq.: IELP placement test. Sixteen-week/160 hour pre-academic introduction to reading, writing, and grammar skills for non-native speakers of English. In this course, which is divided into two, eight-week sessions, students will develop the basic communication and survival skills necessary to begin studying English for academic purposes.

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 & 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 & 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 205 English for Specific Purposes 1 TO 3

Special purpose course designed to meet the needs of selected groups of non-native English speakers. Focuses on developing communicative competence in a specific field or workplace environment. May be repeated.

IELP 301 Intensive English Language & 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 & 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 & 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 & 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 & 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 & 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

ISCI 118 Women's Contributions to Stellar and Galactic Astronomy 3

Formerly ESCI 218. Prereq.: MATH 099 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. Study Area IV

INTERNATIONAL BUSINESS

Note: Enrollment in 300- and 400-level international 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 3 credits. Irregular. [I]

IB 495 Field Studies in International Business 3

Prereq.: Permission of the department chair. 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 436 Geography of South America 3
Cross listed with GEOG 436 and LAS 436. See GEOG 436 for a detailed description. Spring.
- 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 470 Topics in International Studies 3
Prereq.: GEOG 220 or permission of instructor. Cross listed with GEOG 470. See GEOG 470 for a detailed description.
- 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 Cyberspace and Society 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
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
- 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.
- 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.

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
- 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 to students who have received credit for ITAL 111 and/or ITAL 112. Intensive Italian language course designed to bring students to intermediate skills in one semester. Six classroom hours per week. Skill Area III
- ITAL 123 Basic Italian Review 3
Prereq.: Three years of Italian in high school or equivalent preparation. Refresher course designed to reinforce basic listening, reading, speaking, and writing abilities in Italian. No credit will be given to students with more than three years of Italian in high school, except by permission of department chair. Irregular. Skill Area III
- 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 Intermediate Italian III 3
Prereq.: ITAL 125 or ITAL 126 or permission of instructor. Designed to help students improve speaking skills and develop correct idiomatic usage and fluency of expression through discussion of contemporary texts. Further study of grammar. Fall. Skill Area III [I]
- ITAL 226 Italian Structure and Idiom 3
Prereq.: ITAL 125 or 126 or permission of instructor, Designed to help students improve writing skills by means of frequent composition in Italian. Further study of grammar. 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 225 or ITAL 226 (either 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 225 or 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 225 or ITAL 226 (either may be taken concurrently) or permission of instructor. 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 225 or ITAL 226 (either may be taken concurrently) or permission of instructor. 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 for student development of oral proficiency in Italian through discussion of readings, films and other authentic materials. On demand. [I]
- ITAL 336 Advanced Structure and Idiom 3
Prereq.: ITAL 226. Additional practice for student development of oral proficiency in Italian through discussion of readings, films, and other authentic materials. 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 audio 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
- 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

LATIN AMERICAN STUDIES

- LAS 235 International Relations 3
Introduction to the 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]
- LAS 281 Latin American History to 1823 3
Cross listed with HIST 281. See HIST 281 for a detailed description.
- LAS 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]
- LAS 376 Spanish-American Literature II 3
Prereq.: SPAN 300 or permission of instructor. Cross listed with SPAN 376. See SPAN 376 for a detailed description. Spring. Study Area I
- LAS 382 Latin American History Since 1823 3
Social, economic, political, and cultural development of Latin American countries since 1823. Spring. (O)
- LAS 428 Cultures of Latin America 3
Prereq.: ANTH 140 or ANTH 170 or SOC 110. Introduction to modern and pre-Columbian 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]
- LAS 434 Mexico, Central America and the Caribbean 3
Cross listed with GEOG 434. See GEOG 434 for a detailed description.
- LAS 436 South America 3
A survey of the countries of South America with emphasis on people, places, and problems. Cross-listed with GEOG 436 and IS 436. Spring.

LAW

Note: See also the Pre-Law Program on page 118, as well as EXS 412, PHIL 349, PS 235, PS 241, PS 331, PS 332, PS 338, and PS 339.

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
Prereq.: Open only to students who have earned fewer than 60 credits. Introduction to the use of information resources available electronically and in print that facilitate undergraduate research. Emphasis is placed on searching the library catalog and subject databases to find books, articles and other information. Additional topics include the correct citation of sources, evaluating information and searching the World Wide Web. Skill Area IV

LINGUISTICS

LING 200 Introduction to Linguistics 3
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
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 [I]

LING 300 Language Acquisition 3
Prereq.: 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
Prereq.: LING 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.

LING 313 Introduction to Phonetics & Phonology 3
Prereq.: LING 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
Intensive analysis (syntactic, morphological, phonological) of selected data from English and other languages. Particular emphasis on developing analytical skills. Irregular.

LING 430 Studies in Linguistics & the English Language 3
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
History, growth, and structure of the English language. Spring.

LING 433 Introduction to Computational Linguistics 3
Prereq.: LING 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.

LING 434 Speech & Natural Languages Processing 3
Prereq.: LING 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. Irregular.

LING 496 TESOL Methods 3
Principles, methods, and materials for teaching English to non-English speaking students at all levels. Acquisition and practice of basic language teaching skills. Intercultural communication in the TESOL classroom.

LING 497 Second Language Acquisition 3
Major theories of language acquisition and their potential application to language learning. The theoretical bases of second language instruction. Spring.

MANAGEMENT

Note: Enrollment in 300- and 400-level management courses requires admission to the School of Business or permission of the department chair.

MGT 295 Fundamentals of Management and Organizational Behavior 3
Prereq.: ENG 110 with a grade of C- or higher and sophomore standing. 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) and junior standing. Study of the management of human resources. Topics include equal employment opportunity, job analysis, human resource planning, recruitment, selection, training, performance appraisal, compensation, labor/management relations, and related topics.

MGT 321 International Management 3
Prereq.: MGT 295 with a grade of C- or higher and junior standing. 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 326 Business Organizational Behavior 3
Formerly MGT 426. Prereq.: MGT 295 with a grade of C- or higher and junior standing. 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 345 Organizational Theory 3
Prereq.: MGT 295 with a grade of C- or higher and junior standing. 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 with a grade of C- or higher and junior standing. 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 390 Management Topics 3**
Prereq.: Junior standing and permission of department chair. 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 403 Ethical and Social Issues for the Manager 3**
Prereq.: MGT 295 with a grade of C- or higher and junior standing or permission of the department chair. Defines contemporary ethical issues of managerial and corporate social responsibility and explores the impact of these issues on managerial decision-making behaviors. Emphasized issues that emerge in the internal as well as external environments of a business organization. Defines societal expectations of organizations regarding corporate social responsibility.
- MGT 425 Labor/Management Relations 3**
Prereq.: MGT 295 with a grade of C- or higher and junior standing. 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.
- 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 (both with grades of C- or higher) and junior standing. 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. Fall.
- MGT 448 Managing Strategy and Operations 3**
Prereq.: FIN 295, MGT 295, MGT 348, and MIS 201, (all with grades of C- or higher), and senior standing; or permission of department chair. Examines ways of managing the interface between an organization's strategy and its operations. Operations are activities aimed at creating and delivering products and services of great value and high quality. Involves aligning operational capabilities with strategic direction and integrating resources to meet requirements using contemporary business tools, techniques, and methods.
- MGT 460 Staffing 3**
Prereq.: MGT 305 with a grade of C- or higher and junior standing. Study of issues related to 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 with a grade of C- or higher and junior standing. 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. [I]
- MGT 470 Organizing and Managing for Quality 3**
Prereq.: MGT 295 with a grade of C- or higher and junior standing. 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. Irregular.
- MGT 471 Managing Knowledge for Business Performance 3**
Prereq.: MGT 295 with grade of C- or higher and junior standing; for graduate students, permission of department 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. Irregular.
- MGT 473 Organizing and Managing for Innovation 3**
Prereq.: MGT 345 with a grade of C- or higher, and junior standing; or permission of department chair. 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**
Prereq.: AC 212 and FIN 295 and LAW 250 and MC 207 and MIS 201 and MGT 295 and MKT 295 (all 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 with grade of C- or higher, and junior standing. 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. Irregular.
- MGT 497 Internship/Independent Study in Management and Organization 3**
Prereq.: Junior standing and approved Special Project Request Form. 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.

MANAGEMENT INFORMATION SYSTEMS

Note: Enrollment in upper-division management information systems 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.
- 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.
- MIS 220 Contemporary Business Applications Development I 3**
Prereq.: MIS 201 (C- or higher). Introduction to contemporary approaches to application development in a business environment. Emphasis on program design, development, testing, implementation, and documentation of business applications.
- MIS 251 International Studies in Information Systems 3**
The goal of this course is to expose students to various information systems topics and to allow them to develop comparative understanding of information systems between different countries. This course does not count toward the MIS major. Irregular.
- MIS 305 E-Business 3**
Prereq.: MIS 201 (C- or higher) or permission of department chair. Focuses on conducting e-business activities, including e-commerce, e-business models, and processes in organizations. Technology infrastructure, global, social, ethical, privacy, security as well as planning, designing, developing, and maintaining a web site.
- MIS 312 Contemporary Business Applications Development II 3**
Prereq.: MIS 220 (C- or higher). Emphasizes program design, development, testing implementation, and documentation of business applications. Window and web applications, data access, security, and exchange will be covered.

MIS 315 Database Management Systems 3
Prereq.: MIS 201 (C- or higher) or permission of department chair. Emphasizes the importance of data management in business. Design, develop and implement database systems for organizational needs. Sample topics include: relational databases, data modeling, SQL, and database administration. Design and implementation of a major database project.

MIS 361 Systems Analysis and Design for Business 3
Prereq.: MIS 201 (C- or higher) or permission of department chair. Development of business application systems using structured and object-oriented analysis and design. Use of modeling techniques and CASE tools. Evaluation of system choices via business analysis methods. Includes information systems architecture, enterprise modeling, and ethical issues.

MIS 400 Business Decision Analysis Using Knowledge Bases 3
Prereq.: MIS 201 (C- or higher) or permission of department chair. Investigation of management information systems for knowledge-based work with emphasis on decision-making using a variety of knowledge management and decision support systems and techniques.

MIS 410 Business-Driven Network Design 3
Prereq.: MIS 361 (C- or higher) or permission of department chair. Introduce networking concepts. Integrates technical and business needs analysis with network component selection and Internet technologies. Design and price a large enterprise network. Uses a business case approach with Network Analysis and Design methods.

MIS 450 Enterprise Strategies and Transformations 3
Prereq.: MIS 361 (C- or higher) or permission of department chair. 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.

MIS 462 Systems Implementation & Project Management 3
Prereq.: MIS 315 and MIS 361 (both with minimum grade of C-). Factors necessary for successful project management and system implementation. Group project related to implementation of a full-fledged information system through experience of best management practices.

MIS 494 Independent Study in Management Information Systems 3 TO 6
Prereq.: MIS 315 and MIS 361 (B or higher) and 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.

MIS 496 Practicum in Management Information Systems 3
Prereq.: MIS 315 and MIS 361 (both with grades of B or higher) and senior standing; or 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.: MIS 315 and MIS 361 (both with grades of C- or higher) and senior standing. An examination of the current trends in the theory and business practices of information and decision sciences. On demand.

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 Materials 3
Technical principles and concepts of material structure, properties, and testing methods for the major material families (metals, polymers, ceramics and composites) as it relates to material selection and processing decisions. Lecture/lab meets five hours per week.

MFG 121 Technical Drafting & CAD 3
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. Lecture/lab meets five hours per week.

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. Lecture/lab meets five hours per week.

MFG 226 Principles of Computer Numerical Control 3
Prereq.: MFG 121 or ETM 260 or permission of instructor. Principles essential for computer numerical control part programming and machine tool operation. Laboratory experiences include word address programming, computer-aided programming, and CNC machine tool setup and operation. Lecture/lab meets five hours per week. Spring.

MFG 236 Tool Design 3
Prereq.: MFG 121 or permission of instructor. Introductory study of and experiences in the design and construction of custom tooling for manufacturing. Lecture/lab meets five hours per week. Fall.

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. Lecture/lab meets five hours per week.

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 496 Lean Manufacturing 3
Principles of lean manufacturing methodologies. Topics include production flow analysis, value stream mapping, pull systems, cellular manufacturing waste elimination, visual factory, error proofing, quick changeover, change management. Fall.

MARKETING

Note: Enrollment in 300- and 400-level marketing courses requires admission to the School of Business or permission of the department chair.

MKT 295 Fundamentals of Marketing 3
Prereq.: Sophomore standing. Overview of marketing emphasizing customer satisfaction and value. Product, price, promotion, place, people and physical evidence of quality; consumer behavior; marketing research; segmentation-targeting-positioning; ethical, global, and social issues are highlighted.

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 Advertising and Promotion** 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 with an emphasis on advertising and sales promotion.
- 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. 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. Spring.
- 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. Fall. [I]
- MKT 339 Spatial Marketing** 3
Prereq.: MKT 295 (C- or higher). Examines geo-spatial aspects of marketing. Customer location, competitor location and geo-demographics. Business GIS software is used to address: retail site location, predicting store sales potential and developing spatial advertising campaigns. Fall.
- MKT 350 Internet Marketing and Channels** 3
Prereq.: MKT 295 (C- or higher). Discussion of the supply chain with emphasis on internet marketing. A critical analysis of various distributive strategies, underlying theories of distribution channels, techniques of costing alternative trade channels, and the structuring of channel intermediaries. Spring.
- 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. Fall.
- MKT 373 Marketing Research** 3
Formerly MKT 423. Prereq.: MKT 295, STAT 201 with grades of C- or higher; MKT 305 (may be taken concurrently). 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.
- MKT 375 Services Marketing** 3
Prereq.: MKT 305 (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 380 Market Data Analysis** 3
Prereq.: STAT 201, MKT 373 (formerly MKT 423) with a grade of C- or higher. Theoretical foundations in consumer need identification, prospecting, segmentation, positioning, pricing, advertising, consumer purchase decision process. Use of ANOVA, factor, cluster, discriminant, and conjoint analysis, perceptual maps and experimental designs.
- MKT 390 Product Development & Management** 3
Formerly MKT 340. Prereq.: MKT 380 (C- or higher). Analytic methods and models used in practice to develop new products and services; step-by-step development process including; opportunity identification, concept generation, concept evaluation, development, launch, management over the life cycle.
- MKT 413 Business-to-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 415 Marketing Touristic Startups** 3
Prereq.: MKT 295, MGT 295, AC 211 (with a grade of C- or higher). Principles and practices in creating and marketing touristic startups: market research, market identification, market analysis, market planning, market pursuit, and marketing management. Spring.
- MKT 439 Direct Marketing** 3
Prereq.: MKT 373 (formerly MKT 423) (C- or higher). Theory and application of direct marketing concepts, issues and applications including: list maintenance, market segmentation, customer profiling, response model building, model performance, the offer letter, media selection and performance.
- MKT 444 Direct Marketing Analytics** 3
Prereq.: MKT 373 (formerly 423). Students learn SAS programming, advanced statistical application, and marketing analytics as used in the direct marketing industry. Specific applications include: customer profiling, geographic segmentation and customer response modeling. Cross listed with STAT 456. Spring.
- MKT 450 Marketing Strategy and Plan** 3
Prereq.: AC 212, FIN 295, MGT 295, MIS 201, MKT 305 and MKT 380 (all with grades of C- or higher). Synthesis of analytical frameworks: models for understanding customers, competitors, collaborators (e.g., suppliers and intermediaries), the organization itself, and the design of its strategy. Students practice decision making with a marketing simulation and write a marketing plan.
- MKT 470 Integrated Marketing Communication** 3
Prereq.: MKT 306 (C- or higher). 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. Fall.
- MKT 471 Topics in Human Geography: Marketing** 3
Prereq.: Permission of instructor. Cross listed with GEOG 471. See GEOG 471 for a detailed description.
- 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 481 Consultative Selling Techniques** 3
Prereq.: MKT 305 or permission of instructor. Integrate theory and application of the consultative sales process with counselor style selling techniques emphasizing internalization of selling skills for business-to-business marketing employing lecturing, modeling, role playing, and coaching. Also studied are sales careers, CRM systems and applied psychology for selling.
- 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. Winter, summer.
- MKT 496 Practicum in Marketing** 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 Project Plan. May be repeated for a maximum of 6 credits. On demand.
- 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. Winter, summer.

MKT 498 Marketing Seminar 3
Prereq.: MKT 295 (C- or higher) and senior standing. Exposes students to the latest developments in the field of marketing. Emphasis is placed on current advanced books and literature in relevant journals. Content will vary from semester to semester. 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 24 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. Remedial. 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 Survey of Mathematics for Liberal Arts 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 106 Mathematical Topics for Liberal Arts 3
Prereq.: MATH 101 (C- or higher). Topics in mathematics suitable for students majoring in other disciplines and not covered in other courses. Topics may include: the mathematics of music, mathematics and the arts, game theory, cryptography, and mathematical modeling. May be repeated with different topics for a maximum of six credits. 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. 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. 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. 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. 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. 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. 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 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. 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 including transcendental functions. Antiderivatives, definite integrals with applications. Skill Area II

- MATH 211** Clinical Experience in Mathematics Education I 1
Prereq.: MATH 152 (C- or higher). Provides prospective teachers of mathematics with an opportunity to gain practical experience in a tutorial setting. Students are trained as tutors for level 1 CRLA (College Reading and Learning Association) certification and are assigned to work a minimum of 3 hours per week in the Learning Center primarily helping students taking MATH 099 and MATH 101.
- MATH 213** Structure of Mathematics II: Probability & 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 with a grade of 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 and 152, both with grades of 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 (C- or higher). Further application of integration and techniques integration. Improper integrals and L'Hopital's. Infinite series including Taylor series and representation of functions. 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 226** Linear Algebra and Probability for Engineers 4
Prereq.: MATH 221 (C- or higher). Introduction to the mathematics required for engineering, including basic linear algebra and topics in probability and statistics. Emphasis on applications. Fall.
- MATH 228** Introduction to Linear Algebra 4
Prereq.: MATH 152 and MATH 218 both with grades of C- or higher. Vector spaces, systems of linear equations, determinants, linear transformations, and matrices are considered.
- MATH 250** Symbolic Computation 4
Prereq.: MATH 221 and either MATH 228 or MATH 226 (C- or higher). Introduction to symbolic computation packages, including Mathematica. Emphasis on applications and independent research. Fall. (E)
- 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 and Elementary Education 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, MATH 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 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. school mathematics.
- 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 311** Clinical Experience in Mathematics Education II 1
Prereq.: MATH 211 (C- or higher). Tutors are trained at level 2 (CLRA certification) and assigned to tutor in a middle school or high school setting.
- MATH 313** Number Systems from an Advanced Viewpoint 3
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. Spring.
- 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 & 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.
- MATH 328** Curriculum & 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.
- MATH 344** Mathematics in Diverse Cultures 3
Prereq.: MATH 152 or MATH 125 or MATH 305 all with grades of 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. (E) [I]
- MATH 355** Introduction to Differential Equations with Applications 4
Prereq.: MATH 221 and either MATH 226 or MATH 228 (C- or higher). Introduction to analytical, geometric, and numerical methods for solving ordinary differential equations. Basic models of physical systems using ordinary differential equations. Introduction to software used for solving ordinary differential equations. Spring.

- MATH 366** Introduction to Abstract Algebra 4
Prereq.: MATH 218 (C- or higher). Certain fundamental structures such as groups, rings, integral domains, and fields are considered.
- MATH 377** Introduction to Real Analysis 4
Prereq.: MATH 221 (with grade of C- or higher). In-depth introduction to the theory of functions, including integration, differentiation, and series.
- 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.
- 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 III 1
Prereq.: MATH 211 and MATH 221 (both with grades of C- or higher). Tutors are assigned to work in the Learning Center and may tutor students in courses up through MATH 152. Students who have not had Level 2 CLRA certification training receive the same training as students taking MATH 311.
- 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 421** History of Mathematics 3
Prereq.: MATH 221 or for graduate students, admission to 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 450** Seminar in Proof 4
Prereq.: MATH 366 and 377 (both with grades of C- or higher), one of which may be taken concurrently. Students will study a number of important theorems in mathematics, examining the proofs of these theorems in depth. Each student will make a presentation to the class before the end of the semester. Topics will vary based on student and instructor interest. This is a capstone course for the BA major. Class is limited to 15 students. Spring.
- MATH 455** Introduction to Partial Differential Equations with Applications 4
Prereq.: MATH 355 (C- or higher) or permission of department chair. Introduction to analytical, geometric, and numerical methods for solving partial differential equations. Basic models of physical systems using partial differential equations. Introduction to software used for solving partial differential equations. Fall. (O)
- MATH 468** Symbolic Logic 3
Prereq.: MATH 366 or equivalent. Introduction to truth, validity and argument. Methods of deduction, propositional functions and quantifiers, logic of relations, deductive 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 215 or 315, and MATH 110 or 228 or permission of instructor. 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 or permission of instructor. 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. No credit given to students with credit for CS 254. Fall. (E)
- MATH 491** Advanced Calculus 3
Prereq.: MATH 222 or permission of instructor. 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)

MECHANICAL ENGINEERING

- ME 216** Manufacturing Engineering Processes 3
Prereq.: ENGR 150. Engineering fundamentals of manufacturing processes for metals, ceramics and plastics, including forming, forging, rolling, drawing, EDM, laser cutting, welding, casting, molding and machining operations, are developed through analytical class work and manufacturing laboratory experiments. Two hours of lecture and two hours of lab per week. Spring.
- ME 258** Engineering Thermodynamics 3
Prereq.: CHEM 163 and 164 (formerly combined as CHEM 122) or CHEM 122 and PHYS 125. Engineering thermodynamics concepts involving storage, transformation, transfer of energy and properties of substances. First and second law analysis of thermodynamic systems and control volumes for engineering design. Spring.
- ME 345** Engineering Statistical Analysis of Operations 3
Prereq.: MATH 226. Engineering probability and statistical techniques used to make inferences in experiments. Probability distributions. Tests of significance,

hypothesis testing, simple linear regression, multiple regression models and ANOVA. Basics of factorial experiments Taguchi quality techniques and SPC/SQC. Spring.

ME 354 Fluid Mechanics 3

Prereq.: ENGR 251 and ME 258 and MATH 355. Basic principles of fluid mechanics. Hydrostatic forces, kinematics of fluid motion, integral and differential representation of conservation of mass, momentum and energy, Bernoulli's equation, dimensional analysis, viscous flow, frictional losses, pipeline network analysis and design. Two hours of lecture and two hours of laboratory per week. Fall.

ME 360 Manufacturing Operations Analysis and Simulation 3

Prereq.: ME 345. Planning and optimization of resources utilization, forecasting, scheduling and sequencing of activities, inventory and maintenance planning for JIT environment, automated production. Lean Manufacturing environment and analysis and design. Analysis and simulation of production problems using computers. Fall.

ME 367 Machine Design 3

Prereq.: ENGR 252 and ENGR 257. Analysis for the design of basic mechanical elements, and their role in the design of machines; theories of failure, fatigue design, design of bolted connections, welds, springs, bearings, gears, clutches, and brakes. Spring.

ME 370 Instrumentation 3

Prereq.: ENGR 257. Introduces data acquisition using A/D converters; fundamentals of transducers; static and dynamic response; amplifiers; theory of A/D and D/A converters. Applies error analysis and elementary statistics. Two hours of lecture and two hours of laboratory per week. Spring.

ME 400 Special Topics in Mechanical Engineering 3

Special topics introduces knowledge of advanced mechanical engineering concepts, materials, and techniques. May be repeated under different topics for a total of 9 credits. Irregular.

ME 403 Mechanical Systems and Control 3

Prereq.: ENGR 252 MATH 355. Topics include lumped physical system models; electrical, fluid, mechanical, and thermal system analysis; linear system transient, steady-state behavior; analysis and design of feedback control systems; transfer functions; block diagrams; proportional, rate, and integral controllers; and hardware and implementation. Spring.

ME 452 Mechanical Vibrations 3

Prereq.: ENGR 252 and MATH 355. Modeling and analysis of vibrating systems, characteristics of single degree and multiple degrees of freedom systems. Modal analysis and synthesis, vibration control by isolation, absorption, or balancing. Applications of computer simulation and analysis techniques in vibrations. Irregular.

ME 454 Heat Transfer 3

Prereq.: MATH 355 and ME 354. Introduces the transport of heat by steady and transient heat conduction; forced and natural convection; radiation; introduction to phase change heat transfer and to heat exchangers. Fall.

ME 460 Manufacturing System Design 3

Prereq.: ME 360. Analysis, synthesis, and control of manufacturing operations. Group Technology and flexible manufacturing. Process design and tolerance control in discrete parts manufacturing. Analysis and design of Lean Manufacturing environment. Use of SPC/SQC and statistical methods. Spring.

ME 466 Inventive Engineering Design 3

Prereq.: PHYS 126. Design methodology and practice in problem solving using various techniques. Creative concept generation. Use of inventive principles and engineering contradictions in problem solving applied to product, process and system design. Patents and intellectual property protection. Spring.

ME 480 Propulsion Systems 3

Prereq.: ME 354. Concepts of heat and mass transfer, conservation of mass momentum and energy, the basic operating principles and design methods for flight vehicle systems. Turbojets, ramjets, turboprops and turbofans and rocket engines will also be examined. Fall.

ME 483 Aerodynamics 3

Prereq.: ME 354. Presentation of aerodynamic theory. Course covers differential equations of fluid mechanics theory, wings, potential flows and laminar and turbulent flows. Flight and computer simulations. Aerodynamic design project required. Spring.

ME 486 Aerospace Structures and Materials 3

Prereq.: MATH 226 and ENGR 257. Topics will include bending, torsion and buckling of built up aerospace structures. Strain energy, fundamentals, and application of composite and alloys as applied to aerospace structures are covered along with computer modeling techniques. Spring.

ME 497 Senior Project I: Project Research 2

Prereq.: Senior standing. First of two-course capstone design sequence. Students work in an environment appropriate to an industrial setting. Teams propose and begin development of designs. Teamwork and oral and written communication skills emphasized. Mechanical Engineering majors only. Fall.

ME 498 Senior Project II: Design Project 2

Prereq.: Second course in capstone design sequence. Student design teams finalize capstone projects through oral and written presentation. Final design analysis must satisfy requirements and show sound engineering judgment. Computer simulation and prototype development expected. Spring.

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 111 Elementary Modern Language I 3

Open to students with one year or less of high school study to the target language. Not open to native speakers. Through a direct conversational approach, foundations of the target language grammar and structure are established. May be repeated in a different language. On demand. Skill Area III

ML 112 Elementary Modern Language II 3

Prereq.: ML 111 (same language) or high school equivalent (normally two years of high school study). Study of the spoken and written target language is continued with analysis of the target language's structure. May be repeated in a different language. On demand. Skill Area III

ML 125 Intermediate Modern Language I 3

Prereq.: One year of college instruction in the target language, or equivalent. Principles of the target language structure are reviewed. Short stories and plays are read and discussed. Conversational and composition on topics of general interest. No credit given to students with credit for more advanced coursework in the target language. May be repeated in a different language. On demand. Skill Area III

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 3 credits. On demand.

- ML 428 Methods and Materials for Teaching World Languages at Elementary School Level 3
Prereq.: ML 490 (may be taken concurrently) or LING 300 (may be taken concurrently) or permission of instructor, and admission to Professional Program or Accelerated Teacher Program in Spanish or admission to graduate program in modern language or permission of instructor for currently certified teachers. 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. NOTE: Instructors may not override Professional Program admission requirement. Fall, summer.
- ML 429 Seminar in Modern Language Teaching Methods 4
Prereq.: Admission to the Professional Program or State language certification. Discussion and practice of the historical, theoretical and contemporary issues, and selected topics related to the teaching of modern languages at the secondary level. Includes 30 hour field experience done outside class hours in assigned public school setting. Not for credit toward any master's degree. 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.: Admission to Professional Program or Accelerated Teacher Program in Spanish or admission to graduate program in modern language or permission of instructor for currently certified teachers. 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. NOTE: Instructor may not override Professional Program admission requirement. 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 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 — \$200.00 for 1/2 hour lesson (MUS 177) and \$400.00 for full hour lesson (MUS 178, 278, 378, 478). Contact the department at 860-832-2912 for additional information.
- MUS 100 Search in Music 3
Introduction to and overview of various topics, techniques, and genres in music history and/or theory. Titles and themes may vary from section to section. Three hours of lecture per week. Irregular. Study Area I
- 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 Introduction to Music Technology 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 Aural Skills 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 Aural Skills 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.: MUS 114 (may be taken concurrently) or 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 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 Sinfonietta 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: \$200 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 credits. Fee: \$400 per semester. (Fees subject to change.)
- MUS 211 Ethnomusicology 3
Prereq.: MUS 121 or MUS 109 for music majors. 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 214 Electro-acoustic Music and Sonic Art 3
Historical survey of electro-acoustic music composition and sonic art. Introduction to computer-based digital audio recording and editing, sound synthesis, and effects. Simple electro-acoustic and sonic art composition projects. Spring. Study Area I
- MUS 215 Aural Skills 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 Aural Skills 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 121. Survey of the development of Western music in its historical context from ancient Greece to the late Baroque era. Spring. [I]
- MUS 236 Music History II 3
Prereq.: MUS 122 and MUS 235. Survey of the development of Western music in its historical context from the late Baroque to the late Romantic era. Fall. [I]
- MUS 250 Piano Class I 2
Introduction to piano through the study of harmonic, melodic, and rhythmic patterns. Elementary keyboard skills in sight-reading, transposition and melody harmonization. For students with no previous piano training.
- 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.
- 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 Methods 1
Beginning class instruction in woodwind instruments. Open only to Music majors. Fall.
- MUS 262 Brass Methods 1
Beginning class instruction in brass instruments. Open only to Music majors. Spring.
- MUS 263 Percussion Methods 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 Methods: Violin and Viola 1
Methods and materials of class instruction in violin and viola. Open only to Music majors. Fall.
- MUS 268 String Methods: 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 101 and MUS 114. 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 273 Jazz Theory & Improvisation I 2
Prereq.: MUS 121 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 274 Jazz Theory & Improvisation II 2
Prereq.: MUS 273 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 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 295 Beginning Composition 2
Prereq.: MUS 221 (with a grade of C- or higher) and MUS 114; or permission of instructor. Fundamental principles, techniques, and skills of music composition. Introduction to contemporary innovations in musical styles and language. Composition of simple, short musical compositions. Spring.
- MUS 310 General Music Education, Part I (Grades PK-4) 3
Prereq.: MUS 101 (C- or higher). Organization, aims, and supervision of elementary school general music programs. Materials for teaching general music in the elementary schools. Open only to Music Education majors. Field experience required (10 hours). To be taken concurrently with EDTE 314.
- MUS 311 General Music Education, Part II (Grades 5-12) 3
Prereq.: MUS 101 and MUS 310 (both with grades of C- or higher) and admission to the Professional Program. Organization, aims, and supervision of general music programs, and resources and techniques for teaching general music. Aims, materials, procedures, and techniques for teaching general music and non-performance classes

in middle and high schools grades (7-12). Field experience requirement: teacher candidates will have a minimum of 15 hours of field experience. To be taken concurrently with EDSC 375 and SPED 315. Spring.

MUS 315 Choral Music Methods 4

Prereq.: MUS 101 and MUS 310 and MUS 311 (all with grades of C- or higher) and admission to the Professional Program. Organization, aims, methods and supervision of school vocal programs and choral organizations in elementary, middle and high schools. Discussion of special problems of choral conducting and the selecting of choral materials and repertoire for students in grades 4-12. Field experience required (20 hours). Open only to Music Education majors. To be taken concurrently with EDF 415. Spring.

MUS 316 Instrumental Music Methods 4

Prereq.: MUS 101 and MUS 310 and 311 (all with grades of C- or higher), and admission to the Professional Program. Organization, aims, methods, and supervision of school instrumental programs and instrumental organizations. Discussion of special problems of instrumental conducting and the selecting of instrumental materials and repertoire appropriate for students in grades 4-12. Open to Music Education majors only. To be taken concurrently with EDF 415. Spring.

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

Prereq.: MUS 236. Historical and theoretical study of works by major 20th century composers and their compositional procedures. Open to Music majors only. Fall. [I]

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 366 Jazz Composing & 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.

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 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.: Admission to the M.S. in Music Education program, or four semesters of undergraduate music theory or demonstrated proficiency on the music theory entrance examination. Survey of the principles of music theory through analysis of representative forms from various style periods. 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 110 Introduction to Nursing Theories 3

Students will explore current and historical nursing, health, behavior, aging and other theories as they relate to nursing. Fall.

- NRSE 150 Nutrition 3
Prereq.: CHEM 150 and BIO 111 or BMS 102 (may be taken concurrently). CHEM 152 should be taken concurrently. Emphasizes basic normal nutrition across the lifespan and the current guidelines for maintaining wellness through healthy eating. The interconnectedness of nutrition and health or disease is stressed and an introduction to nutritional therapy is included. Nursing application of nutritional knowledge is the primary focus of this course. Spring.
- NRSE 210 Health Assessment 4
Prereq.: Admission to the Professional Program in Nursing and PSY 236. Provides the theoretical knowledge and skills necessary to perform a comprehensive health assessment including comprehensive history taking, interviewing, and assessment techniques. Fall.
- NRSE 246 Health Care Ethics 3
Prereq.: Admission to the Professional Program in nursing or permission of instructor. Introduction to basic ethical theories and principles and their application to contemporary health care issues. Discussion will focus on issues connected with confidentiality, competency, research, experimentation, allocation of scarce resources as well as those connected with elderly and other vulnerable populations. Irregular.
- NRSE 250 Nursing Care of Well Populations 4
Prereq.: Admission to the Professional Program in nursing and NRSE 210. Focus on well populations. The nursing role in promotion of health, prevention of disease and encouragement of healthy behaviors in populations across the lifespan is emphasized. Sixty-six hours of clinical experience in community/community-based settings required. Spring.
- NRSE 299 Introduction to Professional Nursing Practice 1
Prereq.: Current Connecticut Registered Nurse License or permission of department chair. Introduction to the Bachelor of Science in Nursing program philosophy, objectives and conceptual framework. An examination of the nursing process as applied to individuals families, populations, and communities.
- NRSE 300 Nursing Assessment 4
Prereq.: Current Connecticut Registered Nurse License, or permission of the department chair. 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
Prereq.: NRSE 299 (may be taken concurrently). Investigation of related nursing theories and their application to nursing practice. An examination of the concept of wellness, leadership, teaching, and learning as applied to individuals, families, populations 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 310 Pharmacology 4
Prereq.: Admission to the Professional Program in nursing and NRSE 400 and BIO or BMS 318 and 319. Coreq.: NRSE 303 and 320. Introduction to basic pharmacologic principles that apply to all drugs across the lifespan along with a review of biologic systems that are affected and influenced by the various drug families. Emphasis will be placed on nursing measures that support desired drug responses or reduce side effects which must be tolerated, and on client teaching indicated by pharmacotherapy. Laboratory included. Fall.
- NRSE 320 Care of Adults with Health Alterations 4
Prereq.: BMS 216. Coreq.: NRSE 303 and NRSE 310. Care of adults with specific alterations in body systems as well as common problems encountered including inflammation, infection, cancer, pain, sleep disorders, substance abuse, fluid and electrolyte imbalance, acid-base imbalance, and shock. Perioperative nursing content (pre-, intra- and postoperative care) is included along with special attention to emergency and home care. Sixty-six hours in an on- and off-campus clinical site required. Fall.
- NRSE 342 Ethical Issues Confronting the Geriatric Patient 3
Formerly HHSP 342. Prereq.: Permission of instructor. Introduction to the major ethical/social/political issues arising in the care and treatment of the elderly individual. Irregular.
- NRSE 350 Care of Women and Children 8
Prereq.: Admission to the Professional Program in nursing and NRSE 303, NRSE 310 and NRSE 320. Coreq.: BIO 412. Focuses on preparing the student to care for childbearing/child rearing families. Concepts from the biological sciences and social sciences are integrated. One hundred and thirty-two hours in a clinical site required. Spring.
- NRSE 400 Nursing Externship 3
Prereq.: Admission to the Professional Program in nursing and NRSE 350 and NRSE 246, and BIO 412. Integrates practice and education through health-care based service model and collaborative partnerships to enhance clinical nursing competence, confidence and skills. Total of ninety-nine clinical hours off campus. Summer.
- NRSE 410 Holistic Family Care and Health Promotion of Families, Populations and Communities 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 Nursing Care of Families, Populations, and Communities Clinical Practicum 4
Prereq.: NRSE 410 and matriculation in the BSN program. Application of the nursing process to families, populations, and communities in diverse settings. Emphasis on leadership, delegation, health promotion, and complex care, based on evidence-based practice.
- NRSE 414 Professional Nursing Role 4
Prereq.: NRSE 412 (may be taken concurrently). Synthesis of professional nursing practice from the analysis of selected ethical, social, political, professional, and role issues with related field experiences as appropriate. Fall, spring, summer.
- NRSE 420 Public/Community Health Nursing I 3
Prereq.: Admission to the Professional Program in nursing and NRSE 400. Integration, analysis and synthesis of comprehensive theoretical concepts of holistic care of populations, families, aggregates, and individuals across the life span. Fall.
- NRSE 430 Psychiatric/Mental Health Nursing 4
Prereq.: Admission to the Professional Program in nursing and NRSE 400. Coreq.: BMS 206 and NRSE 420 and NRSE 440. Integrates behavioral, biological, genetic, psychosocial, cultural, environmental, and religious influences on mental health across the life span. Promotion of health, disease prevention, and adaptation to health deviations will be emphasized. Sixty-six clinical hours on and off campus. Fall.
- NRSE 440 Gerontological Nursing 3
Prereq.: Admission to the Professional Program in nursing and PS 110. Coreq.: NRSE 420 and NRSE 430. The process of aging is examined in terms of values and attitudes toward older citizens. All levels of health will be examined including successful aging, health promotion, disease prevention, acute/chronic illness, limitation of disability and end of life care. Fifty clinical hours required off campus. Fall.
- NRSE 460 Public/Community Health Nursing II 3
Prereq.: Admission to the Professional Program in nursing and NRSE 420. Clinical practicum in community and community-based settings. Emphasis is on application of NRSE 420 concepts, leadership, delegation, health promotion and complex care supported by research for evidence-based practice. Ninety-nine clinical hours off campus. Taken concurrently with NRSE 470. Spring.
- NRSE 470 Care of Critically Ill Adults 4
Prereq.: Admission to the Professional Program in nursing and BIO 412 and NRSE 430 and NRSE 440. Introduction of fundamental concepts and tools associated with critical care nursing with the goal of addressing the nursing management of patients with various alterations in body systems. Emphasis on respiratory, cardiovascular, neurological, gastrointestinal, endocrine, immunological, integumentary, and renal

functions. Sixty-six clinical hours on and off campus. Taken concurrently with NRSE 460. Spring.

NRSE 480 Professional Issues 2
Prereq.: Admission to the Professional Program in nursing and NRSE 420 and NRSE 430 and NRSE 440. Synthesis of professional nursing practice from the analysis of selected ethical, social, political, professional role issues and related field experiences. Taken concurrently with NRSE 490. Spring.

NRSE 490 Leadership and Management in Nursing 3
Prereq.: Admission to the Professional Program in nursing and NRSE 420 and NRSE 430 and NRSE 440. Concepts and practices of management needed by healthcare clinicians to fulfill managerial responsibilities for the quality of care for patients, for caregivers, and organizations. Emphasis on leadership, role modeling, group dynamics, and staff motivation. Taken concurrently with NRSE 480. Spring.

NRSE 498 Special Studies in Nursing 1 TO 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 & 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 111 War & Peace through Films 3
Prereq.: PES 110 (may be taken concurrently) or permission of instructor. Films illustrative of issues and dilemmas of war and peace; followed by in-class discussion. Fall. Study Area II

PES 210 Topics in Peace Studies 1 TO 3
Topics vary. May be repeated with different topics for credit up to a maximum of 6 credits. On demand.

PES 310 Internship in Peace Studies 1 TO 6
Prereq.: Minor in Peace Studies or permission of instructor. Placement of student with an organization that addresses issues of war and peace or related topics of social justice. May be repeated for a maximum of 6 credits. On demand.

PES 410 Research in Peace Studies 3
Prereq.: Open to Peace Studies minors only. Directed research project in Peace Studies. 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 philosophy, to some significant philosophies, and to philosophical problems in metaphysics, theories of knowledge, ethics, and/or aesthetics. 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 125 Introduction to Philosophy through Popular Culture 3
Study of philosophical issues as they arise in films, television, music etc. Recent topics include ethics, feminism, nihilism, the meaning of life. Irregular. 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
Study of attitudes to gender in the history of philosophy, discussion of recent and contemporary issues and texts, and an introduction to feminist thought. Cross listed with WGSS 222. 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
Development of European philosophy from the Middle Ages through the Renaissance (3rd to the 16th century). Topics may include pagan philosophy (Neoplatonism), arguments for the existence of God, and free will and divine foreknowledge. Authors may include Plotinus, Augustine and Aquinas. Spring. (E) Study Area I

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. (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) Study Area I

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. (O)

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
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
Close examination of the foundational texts of the Confucian and Taoist traditions including the four Confucian and two Taoist classics. 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. Spring.
- 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
European philosophy from 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
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. Spring. (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 & 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. [I]
- PHIL 346 Ethical Theory 3
Critical examination of practical and theoretical problems about right and wrong conduct, good and bad character, and justified and unjustified practices, policies and institutions, as well as of ethical theories for addressing the problems. 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 relationships, and the meaning (or lack of meaning) of human existence itself. Spring. Study Area I [I]
- PHIL 368 Contemporary Epistemology and Metaphysics 3
Study of relations between language, thought, and reality by reference to the works of leading 20th century thinkers, both analytic and others. Spring. (O)
- PHIL 376 Buddhist Philosophy 3
Critical survey of Buddhist philosophy from its Indian beginnings to its development in China, including contemporary aspects. Primary source material is used to illus-

- trate key doctrinal developments. No credit given to those with credit for PHIL 276. Fall. [I]
- PHIL 382 Special Topics in Philosophy 3
Study of various topics not dealt with in other philosophy courses. Irregular.
- PHIL 400 Seminar in Philosophy 3
Prereq.: Philosophy majors or minors or permission of instructor. Study of selected topics as announced.
- 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 144 is required of all students entering with fewer than 15 credits and is recommended to be taken in a student's first year.
- 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 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 144 Fitness/Wellness Ventures 2
Benefits of healthy lifestyle incorporating fitness and wellness topics within a lecture and activity setting. Required of all students entering with fewer than 15 credits and recommended to be taken in a student's first year. Skill Area IV
- 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. Spring.
- PE 273 Tumbling and Gymnastics 2
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 2
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.

- 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, thermodynamic properties 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 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 341 Fiber Optic Communication Theory 3
Prereq.: PHYS 325. Scientific principles of fiber optics and optical communication systems. Examines fundamental behavior of optical components, device integrations in optical fiber links, and performance characteristics of complex optical links and networks. 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 TO 3
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. On demand (fall or spring semester).
- PHYS 490 Topics in Physics 3
Selected studies in physics which are not offered presently in the curriculum of the department. Course may be repeated for different topics. No topic may be taken for credit more than once. Irregular.

POLISH

- POL 111 Elementary Polish I 3
Open only to students with one year or less of high school study. Functional approach to grammar. Development of facility in speaking, understanding, reading Polish. Fall. Skill Area III
- POL 112 Elementary Polish II 3
Prereq.: POL 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Polish except by permission of the department chair. Continuation of POL 111. Functional approach to grammar. Development of facility in speaking, understanding, reading Polish. Spring. Skill Area III
- POL 125 Intermediate Polish I 3
Prereq.: One year of college Polish or equivalent. Principles of Polish structure are reviewed. Short stories and poems are read and discussed. Conversation and composition topics given to improve oral and written expression. Fall. Skill Area III [I]
- POL 126 Intermediate Polish II 3
Prereq.: POL 125 or equivalent. Continuation of POL 125. Further work in written and oral expression. Spring. Skill Area III [I]

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 & 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
- 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.
- 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. Cross listed with WGSS 241. 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 & 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 & 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.
- 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.
- 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)
- 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
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 & 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 or 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.
- PS 431 The Legislative Process 3
Prereq.: PS 104 or 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. (O)

- 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)
- 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.: PS 260 or permission of department chair. 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 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 6 TO 8
Prereq.: Junior, 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 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. Fall, spring, summer.
- PS 483 Intern Seminars and Research 6 TO 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 483 may be applied toward a political science major. Fall, spring, summer.

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.

PORTUGUESE

PORT 111 Elementary Portuguese I 3
Prereq.: Open only to students with one year or less of high school study. Through a direct conversational, foundations of Portuguese linguistic structure are established.

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.

PSY 125 Environment & Behavior 3
Prereq.: PSY 112. Effects of built and natural environment on human behavior, cognition, and emotion. Study Area III

PSY 200 Learning & 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 202 Peace Psychology 3
Overview of psychological process involved in peace and war and how humans manage conflict in a way that generates justice and equity rather than destruction. Examines international, societal, and personal levels of conflict. Promotes critical thinking skills, tolerance for rival viewpoints, nonviolent resolutions of conflict and social responsibility. Irregular.

PSY 221 Research Methods in Psychology I 4
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. Student will plan an independent research project which will be done outside of the class setting. Lecture, discussion, and instructor-supervised research activities will take place during class time. Class will meet 4 hours per week.

PSY 222 Research Methods in Psychology II 4
Prereq.: PSY 221 (C or higher). Controlled experiments are contrasted with non-experimental designs, such as naturalistic observation, surveys, and field studies. Factorial, mixed, and multivariate designs are discussed. Student will complete the independent project proposed in PSY 221. This work will be done outside of the class setting. Lecture discussion, and instructor-supervised research activities will take place during class time. Class will meet 4 hours per week.

- 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. 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. 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 & 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. [I]
- PSY 361 Psychology of Early Childhood 3
Formerly PSY 462. 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 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 & Aging 3
Prereq.: PSY 236 or permission of instructor. 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.
- 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.
- 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 444 Positive Psychology 3
Prereq.: PSY 112 and 3 additional credits in Psychology or permission of instructor. Scientific study of human strengths. Topics include optimism, creativity, well-being, and resilience. Spring.
- 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. Cross listed with WGSS 448.
- 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 470 Personality Psychology: Theories and Research 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 & 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.: PSY 222 and 75+ credits; or permission of instructor. Majors only. 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. The project will be at the level which the students can use to present at a national or regional forum. Irregular.

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 400 Writing Instruction for Teachers 2
 Prereq.: Permission of department chair and instructor. Course will explore writing as it relates to the teacher as writer and the impact of his/her writings on writing instruction in elementary classroom. Focus will be on developing the teacher as writer.

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 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 and Human Performance)

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 165 Level 1 Yoga 1
 Students will learn the philosophy, health benefits and longevity patterns of Yoga. Balancing poses, stretching, strength, breath work, salutations, and meditation will be included.

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 170 Introduction to Ice Hockey 1
Students will learn the beginning and/or intermediate fundamentals of ice hockey. Puck skills, skating with pucks and game play will be included. Winter, summer.

REC 171 Introduction to Ice Skating 1
Students will learn the beginning and/or intermediate fundamentals of ice skating. Winter, summer.

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.: Swim the following strokes 25 yards each: front crawl, breaststroke, elementary breaststroke, sidestroke, (and butterfly 15 yards); tread water for 1 minute. 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
Study of selected topics in religion. May be repeated under different topics for up to 6 credits. On demand. Study Area I

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.

SCIENCE EDUCATION

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.: EDTE 316, Admission to the Professional in Teacher Education. Taken concurrently with ESC 425 and 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 and Nature of Science 3
Prereq.: Three courses in science or mathematics, or permission of department chair. Historical development of biological and physical Study or prominent scientist's lives and work and the nature of their various scientific discoveries, particularly over the past five centuries. Reflective study of the changing views and perspectives of society on the nature of scientific studies and subsequent development of associated theories over time.

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
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. Spring.

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
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
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.

SSCI 499 Individual Practicum 1
Prereq.: Permission of history department chair; admission to the Professional Program in teacher education. Individual practicum for students to complete field experience hours in secondary history and social studies classrooms. Irregular.

SOCIAL WORK

SW 100 Exploration in Social Work 3
For students with a strong desire to help people and facilitate social change to determine if they wish to pursue a career in social work. Students will be introduced to the full range of client and practice settings in the global context. Study Area III

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 or BMS 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. Fieldwork required. Spring.

SW 362 Generalist Social Work Practice with 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. Recommend 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. 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 440 Social Work Practice with African Americans 3
Prereq.: SW 226 and SW 227; or permission of instructor. Critical aspects in understanding the African American community and how they relate to social work. Micro, mezzo, and macro approaches to providing strength-based culturally relevant interventions are highlighted. Irregular. [I]

SW 441 Social Work Practice with Latinos 3
Prereq.: Permission of instructor. Critical aspects in understanding the Latino community and how they relate to social work. Micro, mezzo and macro approaches to providing strength-based culturally relevant interventions are highlighted. Irregular. [I]

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 Education Experience 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 Education 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 Education Experience 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 Education 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. 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. Sociology majors only.

SOC 212 Race, Class, and Gender 3
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. Irregular.

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. Irregular.

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. No credit

given to students with credit for WS 240 or WGSS 240. Cross listed with WGSS 240. Irregular. 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. Irregular.

SOC 322 Race and Ethnic Relations 3
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. Irregular.

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. Irregular.

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. Irregular.

SOC 350 Gay & 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. Irregular.

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. On demand.

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 426 Sociology of Revolution 3
Prereq.: SOC 110 and three additional credits in Sociology. Examines major theoretical perspectives used by sociologists to interpret and explain revolutions. Emphasis on Bourgeois, socialist, nationalist, populist, and post-modern revolutions. [I]

SOC 427 American Poverty and Social Welfare 3
Prereq.: SOC 110. Overview of how poverty is measured and understood, and how it has changed over time. Explores the emergence and development of the American welfare state. Irregular.

- SOC 428 Globalization and its Discontents 3
Prereq.: SOC 110. Exposes students to the political, cultural, and economic processes of globalization. Social consequences of globalization are examined, including its impact on the state, production, and the movement of people. Irregular. [I]
- SOC 429 Animals and Society 3
Prereq.: SOC 110. Using Symbolic Interaction as the main theoretical perspective, this course explores the social relationship between humans and animals and examines the social meanings which shape the role and status of animals in society. 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 repeated for a maximum of 6 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. Irregular.
- 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 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. Irregular.
- SOC 455 Men, Masculinity, & 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 484 Sociology of Music 3
Prereq.: SOC 110. Examines the ways in which people use music to define social rituals, build collective identities, and make meaning of our everyday lives. Emphasized how music relates to core sociological concepts, including norms, power, inequality, and social change. Irregular.
- SOC 485 Ads, Fads, and Consumer Culture 3
Prereq.: SOC 110. Examination of the socio-cultural causes and consequences of consumption and consumer behavior including socially constructed motives, meanings, and outcomes of shopping, and the role of advertising and market research. 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 8 to 10 hours per week. Spring.
- 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. Spring.
- SOC 495 Passages & 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.

SPANISH

- 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. No credit given to students with previous credit for more advanced course work in Spanish except by permission of the department chair. Study of spoken and written Spanish is continued with analysis of Spanish language structure. Skill Area III
- 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
- 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 cul-

tures. 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 Language for Heritage Speakers of Spanish I 3
Prereq.: Permission of department chair. Designed to activate oral command and improve presentational and expository skills in Spanish through the study of pertinent cultural topics. For heritage speakers of Spanish only. Equivalent to SPAN 125. 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 125 or 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 SPAN 226 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 Language for Heritage Speakers of Spanish II 3
Prereq.: SPAN 190 or permission of instructor. Designed to improve reading and writing skills in Spanish through the study of pertinent cultural topics. For heritage speakers of Spanish only. Equivalent to SPAN 126. Fall. Skill Area III [I]

SPAN 291 Hispanic Culture for Heritage Speakers of Spanish II 3
Prereq.: SPAN 191 or permission of instructor. Study of major current issues related to the Hispanic culture in the US and Latin America. Topics may include immigration, politics, and religion. Primarily for heritage speakers of Spanish. Spring. Skill Area III [I]

SPAN 300 Literary Analysis 3
Prereq.: SPAN 225 or SPAN 226 or SPAN 290 or SPAN 291 (any 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 225 or SPAN 226 or SPAN 290 or SPAN 291 or SPAN 300 (any 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 225 or SPAN 226 or SPAN 290 or SPAN 291 or SPAN 300 (any may be taken concurrently) or permission of instructor. 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 225 or SPAN 226 or SPAN 290 or SPAN 291 (any may be taken concurrently), or permission of instructor. 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 (may be taken concurrently or 291 (any may be taken concurrently), or permission of instructor. 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 225 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. Cross listed with LAS 376. 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 451 Introduction to Spanish Linguistics 3
Prereq.: Permission of instructor. Taught in Spanish. Studying grammatical construct and covering many areas of linguistics; phonology, morphology, syntax, semantics, and pragmatics. A course designed for students interested in teaching Spanish in the future and to those who enjoy examining the varieties of Spanish spoken by populations around the world. On demand.

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 identifying, 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 430 Characteristics and Education of Individuals with Behavioral/Emotional Disorders 3
Prereq.: SPED 315 or permission of instructor. Taken concurrently with SPED 431. Overview of the education of behavioral/emotional disorders, autism and attention deficit hyperactivity disorders. Topics include characteristics, identification, etiology, theoretical, and educational approaches. Involves field-experience component.

- SPED 431 Behavior Management and Social Skills Development 3
Prereq.: SPED 315 or permission of instructor. Taken concurrently with SPED 430. Examination of methodologies for evaluation, assessment, management of student behavior, and program planning/instruction utilized in special education settings. Involves field-experience component.
- SPED 433 Educational Assessment for Exceptional Learners 3
Prereq.: Admission to the Professional Program and SPED 432. Examines formal and informal assessment materials and techniques used in evaluating adaptive skills, processing abilities, and academic achievement in individuals with learning and/or behavior problems. Topics include procedures for test selection/administration, methods for scoring and interpreting test results. Involves field-experience component.
- SPED 434 Characteristics and Education of Individuals with Developmental Disabilities 3
Prereq.: Admission to the Professional Program. Taken concurrently with SPED 435. Overview of mental retardation, developmental disabilities, autism and physical disabilities. Topics include characteristics, identification, etiology, theoretical, and educational approaches. Involves field-experience component.
- SPED 435 Curriculum Adaptations and Teaching Strategies for Learners with Exceptionalities 3
Prereq.: SPED 433. Taken concurrently with SPED 434. Techniques for assessing social studies, science, and pre-vocational skills, as well as for selecting, developing, and adapting curricula and methods for students with exceptionalities. Involves field-experience component.
- SPED 436 Language Arts for Learners with Exceptionalities 3
Prereq.: SPED 432, 433. Taken concurrently with SPED 438. Techniques for planning and delivering instruction in the areas of reading, writing, and oral language specific to students with special needs.
- SPED 437 Integrative Seminar for Beginning Special Educators 3
Prereq.: SPED 436. Taken concurrently with SPED 439. Examines collaborative strategies for assessment and program planning. Communication skills, professional ethics and codes of conduct will be examined.
- SPED 438 Student Teaching with Exceptional Learners I 6
Taken concurrently with SPED 436. Supervised teaching in special education classrooms, agencies, or institutions. Attendance at on-campus seminars is required. Students must make application to the Director of Field Experiences before September 15 for spring and before March 1 for fall.
- SPED 439 Student Teaching with Exceptional Learners II 6
Prereq.: SPED 438. Taken concurrently with SPED 437. Supervised teaching in special education classrooms, agencies, or institutions at a different age level and with different exceptionality. Attendance at on-campus seminars is required. Students must make application to the Director of Field Experiences before September 15 for spring and before March 1 for fall.
- 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.
- 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.
- STAT 315 Mathematical Statistics I 3
Prereq.: MATH 221; and MATH 218 or permission of department chair. Theory and applications in statistical analysis. Combinations, permutations, probability, distributions of discrete and continuous random variables, expectation, and common distributions (including normal). 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.: Graduate standing with at least one course in statistics or STAT 315 or permission of instructor. 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. Spring.
- STAT 455 Experimental Design 3
Prereq.: STAT 201 or 216 or 416 or permission of instructor. Introduction to experimental designs in statistics. Topics include completely randomized blocks, Latin square, and factorial experiments. Fall. (O)
- STAT 456 Fundamentals of SAS 3
Prereq.: CS 151 and STAT 201 or 216 or equivalent. Introduction to statistical software. Topics may include creation and manipulation of SAS data sets; and SAS implementation of the following statistical analyses: basic descriptive statistics, hypotheses tests, multiple regression, generalized linear models, discriminant analysis, clustering and analysis, factor analysis, logistic analysis and model evaluation. This course is cross-listed with MKT 444. Spring. (E)
- STAT 465 Nonparametric Statistics 3
Prereq.: STAT 201 or 216 or 416 or permission of instructor. 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

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 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

regression, correlation, and contingency tables. Comparisons with the standard parametric procedures will be made, and efficiency and applicability discussed. Fall. (O)

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)

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 115 Electronic Portfolio Assessment 3
Construction of electronic portfolios to organize, display, and provide reflection of student's coursework and projects. Topics include portfolio design and construction methods, artifact selection, reflective practices, and implementation skills. Fall.

TE 155 Integrating Engineering Concepts for K-8 Students 3
Prereq.: TE 110 or TE 115. Development, implementation, and assessment of age-appropriate engineering-design activities that integrate studies of technology, science, social studies, language arts, and mathematics. Field experience required. Spring.

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 215 Materials Processing 3
Prereq.: TC 115 and MFG 118. 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. Lecture/lab meets 5 hours per week. Fall.

TE 221 Innovation & Invention 3
Prereq.: TE 115 and MFG 121. Introduction to teaching engineering design (K-12). Focus on activities that lead to innovation and invention, problem identification, research methods, prototype development and presentation of results. Lecture/lab meets 5 hours per week. Spring.

TE 245 Building Design & Construction 3
Prereq.: TE 115 and MFG 121. Means used to design and construct buildings. Investigation of building codes, site work, wood frame, masonry, concrete and steel frame design and construction techniques. A residential structure design project is required. Lecture/lab meets 5 hours per week. Fall.

TE 299 Technology & Engineering Education Practicum 3
Prereq.: TE 115 and TE 155 or ET 241. Organization and management of technology exhibitions and competitions for middle- and high-school students. Focus on developing children's knowledge, abilities, and leadership through extracurricular and classroom activities. Field experience required. Fall.

TE 310 Communication Systems 3
Prereq.: TE 115 and MFG 121. Application of graphic and electronic communication systems with focus on how the individualized components function together as a system. Research and lab activities include computer graphics, desktop publishing, video, and telecommunications. Lecture/Lab meets 5 hours per week.

TE 330 Transportation Design 3
Prereq.: CET 223 and ET 241 and TE 215 and TE 221. 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 meets five hours per week.

TE 399 Teaching Technology & Engineering (K-12) Teaching 3
Prereq.: TE 155 or TE 299 and coreq.: EDTE 314. Develops background for Technology Education student teaching and professionalism. Emphasis on the development, presentation, and evaluation of student-developed lessons and methods of student assessment, applied to Technology Education laboratories. Field experience required. Fall.

TE 400 Teaching of Technology Education 3
Prereq.: TE 399 (may be taken concurrently) and 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 417 Robot Design & Construction 3
Prereq.: ET 241 and CET 223 and TE 215 and TE 221. Examines the use of robotics in education. Topics include robot applications in education, system development methodologies, project planning and scheduling, robot design and implementation, competitions, and educational resources. Lecture/lab meets five hours per week.

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 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.

TE 498 Technology & Engineering Education Senior Design Project 3
Prereq.: ET 241 and CET 223 and TE 215 and TE 221 and senior standing. Team work or individual project of study, design and/or research a project related to technology education. Final reports submitted to the department for archiving. Oral presentations and electronic portfolio are required. Lecture/lab meets five hours per week.

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 during Fall and Spring semesters. Study Area I
- TH 111 Stagecraft 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-of-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 3
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 213 Scene Painting I 3
Studio course in the techniques of painting scenery for the stage. Irregular.
- TH 217 Sceno-Graphic Techniques 3
Studio course in various methods of graphic presentations of stage sets and designs, including measurements and specifications, drafting, model making and CAD drawing techniques. 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 246 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 Area I
- TH 251 Stage Management 2
Prereq.: TH 111 and 253 or permission of instructor. Study of function, duties, and methods of operation of the stage manager. Includes the development and completion of a working prompt book, analysis of production contracts and technical riders, and study of the Actor's Equity contracts.
- TH 253 Script Analysis for the Theatre 3
Reading and analysis of plays from various periods and countries. Focuses on text analysis from viewpoint of theatre artists: director, actor, designer. Fall. Study Area I
- TH 275 American Theatre Today 3
Survey of theatre in America, with special focus on current developments. Topics include: organizational structure, social and cultural objectives, economic issues, artistic trends, theatre education, multiculturalism, and new plays. May include field trips (ticket charge required), guest speakers and research on selected subject. Spring. (E) Study Area I
- TH 316 Scene Design 3
Prereq.: TH 111 and 217 and departmental permission. Designing scenery for various kinds of stages and plays. Work on ground plans and elevations, perspective drawing, and finished design. Fall. (E)
- TH 318 Lighting Design 3
Prereq.: TH 111, 117. Lighting design and layout for the proscenium, open, and arena stages. Special emphasis on design problems, equipment and control systems. Spring. (O)
- TH 327 Makeup II 1
Prereq.: TH 126 or prior permission of instructor. Advanced makeup projects with attention to mask building and prosthesis. Open to Theatre majors only. Fall. (E)
- TH 330 Design Tutorial 1
Prereq.: Major or minor in Theatre and permission of instructor. Tutorial to solve skill problems through individual lessons and coaching with design major preparing to fulfill project requirements. May be repeated for a total of six credits.
- TH 332 Costume Design 3
Prereq.: TH 121, 222 and permission of instructor. Designing costumes for various styles of plays. Work on design renderings and patterns for construction of costumes. Spring. (O)
- TH 333 Period Styles 3
An exploration of period styles through examination of stylistic elements from Egyptian through current day. Styles of art, architecture, dance, theatre, music, as well as trends in culture will be studied for their effect upon artistic form. Irregular.
- TH 334 Costume Construction 3
Prereq.: TH 121 or permission of instructor. Studio course in methods of constructing theatrical costumes including flat patterning, draping and tailoring in the practical creation of both historical and contemporary garments. Irregular.
- TH 338 Advanced Voice Development 3
Prereq.: TH 135. Expanding and developing range, flexibility and vibrancy of the speaking voice in dramatic performance. Development of effective articulation. Fall.
- TH 347 Acting III 3
Prereq.: TH 338, 246 or permission of instructor. Performance considerations in scene study and character development, as well as self-scripted pieces. Two lectures and one two-hour lab per week. Spring.
- TH 352 Directing for the Stage 3
Prereq.: TH 253. Principles of stage directing and practice. Emphasis on modern methods of directing and the use of its main elements such as space, time, sound, image and the actor. Spring. (O)
- TH 375 History of Theatre I 3
Theatre from Classical Greece to 18th century, including physical theatre, audiences, acting style and other elements of production. Spring. (E)
- TH 376 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.
- TH 447 Acting IV 3
Prereq.: TH 347 and departmental permission. Performance considerations in scene study and role development, with emphasis on plays of varying styles and different periods. Fall. (O)

- TH 456 Shakespearean Production 3
Prereq.: TH 253 and 246, or permission of instructor. Analysis of selected plays from perspective of actor and director. Students act in and stage scenes as major requirements. Irregular.
- TH 465 Creative Dramatics for Children 3
Trains teachers to develop the imagination, creativity, and communication skills of children ages 5 through 12. Includes pantomime, theatre games, improvisation, and formal theatre experience. Spring.
- TH 471 Studies in Technical Theatre 3
Prereq.: Permission of instructor. Selected area of study in technical theatre not covered in other courses. Topic varies. May be repeated for up to 6 credits. Irregular.
- TH 472 Studies in Acting 3
Prereq.: Permission of instructor. Selected area of study in acting not covered in other courses. Topic varies. May be repeated for up to 6 credits. Irregular.
- TH 473 Studies in High Impact Theatre 3
Prereq.: Permission of instructor. Selected area of study in high impact theatre not covered in other courses. Topic varies. May be repeated for up to 6 credits. Irregular.
- TH 474 Studies in NY Theatre Workshop 3
Prereq.: Permission of instructor. Selected area of study in acting/production not covered in other courses. Topic varies. May be repeated for up to 6 credits. Irregular.
- TH 475 Studies in London Theatre 3
Prereq.: Permission of instructor. Selected area of study in performance/production not covered in other courses. Topic varies. May be repeated up to 6 credits. Irregular.
- TH 481 Projects: Scenery 1 TO 3
Prereq.: TH 316 and departmental permission. Individual projects in reading, research, or production under guidance of member of theatre staff.
- TH 482 Projects: Costuming 1 TO 3
Prereq.: TH 332 and departmental permission. Individual projects in reading, research, or production under guidance of member of theatre staff.
- TH 483 Projects: Acting A 1 TO 3
Prereq.: TH 347 and junior standing and departmental permission. Individual projects in reading, research, or production under guidance of member of theatre staff.
- TH 484 Projects: Acting B 1 TO 3
Prereq.: TH 483 and departmental permission. Individual projects in reading, research, or production under guidance of member of theatre staff.
- TH 485 Projects: Lighting 3
Prereq.: TH 318 or permission of instructor. Individual lighting project in reading, research, production and/or design under the guidance of a member of the theatre staff. May be repeated for up to 6 credits. On demand.
- TH 486 Project: Sound 3
Prereq.: Permission of instructor. Individual sound projects in reading, research, or production under guidance of member of Theatre staff. May be repeated for up to 6 credits.
- TH 487 Projects: Research 1 TO 3
Prereq.: TH 374 or departmental permission. Individual projects in reading, research, or production under guidance of member of theatre staff.
- TH 488 Projects: Directing 1 TO 3
Prereq.: TH 352 and departmental permission. Individual direction of student production under faculty supervision.
- TH 489 Studies in Theatre/Drama 3
Prereq.: Permission of instructor. Selected area of theatre and/or drama not covered in other courses. Topic varies. May be repeated for credit. Irregular.
- TH 490 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 perform-

ing, culminating in a public performance. May be repeated for a maximum of 6 credits. Summer.

TH 491 Projects: Technical Direction 3
Prereq.: TH 316 or permission of instructor. Individual technical direction project in reading, research, engineering, and/or technical direction of a production under the guidance of a member of the theatre staff. May be repeated for up to 6 credits. On demand.

TH 492 Projects: Theatre Computer Technology 3
Prereq.: Permission of instructor. Individual theatre computer technology project in reading, research, engineering, and/or design and execution of production under the guidance of a member of the theatre staff. May be repeated for up to 6 credits. On demand.

TH 493 Projects: Stage Management 3
Prereq.: TH 251 or permission of instructor. Individual stage management project in reading, research, and/or stage management of a production under the guidance of a member of the theatre staff. May be repeated for up to 6 credits. On demand.

TH 495 Theatre Internship 3 TO 6
Prereq.: Permission of department. Substantial work in approved area/regional theatre(s) offering experience or research opportunities unavailable on campus. May be repeated for a total of 12 credits. On demand.

TOURISM AND HOSPITALITY STUDIES

THS 300 The Hospitality Industry 3
Prereq.: AC 211 and GEOG 290. Examines the nature of various segments of the tourism-hospitality industry including lodging, restaurants, meetings, conventions, and entertainment. Emphasis on issues and trends facing this industry.

THS 410 Tourism & Hospitality Operations 3
Prereq.: THS 300. 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, Star reports, and tour operations. Spring.

THS 430 Internship in Tourism and Hospitality 3
Prereq.: Permission of program director. Students will work in an environment directly related to their specific interest under the guidance of a faculty member. Written reports and a supervisor evaluation are required. On demand.

THS 435 Independent Study in Tourism and Hospitality 3
Prereq.: Permission of program director. Examines individually planned specific topics within the tourism/hospitality industry. Results can include detailed research paper or project paper. On demand.

THS 450 Hotel and Lodging Practicum 3
Prereq.: THS 410. Combines detailed analysis of issues and trends affecting this sector of the industry with a real-world project supervised by the instructor and the host organization. Irregular.

THS 455 Conventions and Meeting Planning Practicum 3
Prereq.: THS 410. Combines detailed analysis of issues and trends affecting this sector of the industry with a real-world project supervised by the instructor and the host organization. Irregular.

THS 490 Current Topics in Tourism & Hospitality 3
Prereq.: GEOG 290 and THS 300. 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.

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 4
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 2
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 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 472 Strategies for Improving Student Achievement: CAPT 3
Examines each section of the CAPT, reviews what is assessed on the CAPT, and examines how and why it is assessed. Students will develop a portfolio of CAPT-like assessments related to their areas of VTE instruction. Course cannot be used to meet the requirements in a CCSU teacher certification program. On demand.

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.

WOMEN, GENDER, AND SEXUALITY STUDIES

WGSS 200 Introduction to Women, Gender and Sexuality Studies 3
Formerly WS 200. Focus on issues concerning women, gender, and sexuality. Examines these issues in societies, political institutions, education, the arts, medicine, science, and the family. No credit given to students with credit for WS 200. Spring. Study Area III

WGSS 215 Introduction to Women Writers 3
Formerly WS 215. Introduction to women writers of the world, primarily in the eighteenth, nineteenth, and twentieth centuries. No credit will be given to students with credit for WS 215.

WGSS 222 Philosophy and Gender 3
Cross listed with PHIL 222. See PHIL 222 for a detailed description.

WGSS 240 The Sociology of Gender 3
This course is cross listed with SOC 240. See SOC 240 for a detailed description. Irregular. Study Area III

WGSS 241 Women and American Law 3
Cross listed with PS 241. See PS 241 for a detailed description.

WGSS 288 Topics in Women, Gender, Sexuality Studies 3
Formerly WS 288. Topics in an area germane to women's studies on an interdisciplinary, per semester, basis. No credit will be given to students with credit for WS 288.

WGSS 330 History of Women in the US, 1620-1865 3
Cross listed with HIST 330. See HIST 330 for a detailed description.

WGSS 331 History of Women in the United States, 1865-present. 3
Formerly WS 331. Reconstruction to the present with special emphasis on how race, class, and ethnicity shaped women's experiences. No credit will be given to students with credit for HIST 331 or WS 331. Cross listed with HIST 331. Spring.

WGSS 335 Women, Marriage, and Family in Early Modern Europe 3
Formerly WS 335. Impact of social, economic, and ideological changes on gender roles and family structure in European society during the Renaissance, Reformation, and post-Reformation period 1400-1700. No credit will be given to students with credit for HIST 335 or WS 335. Cross listed with HIST 335. Spring. [I]

WGSS 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.

WGSS 390 Topics in Women, Gender, and Sexuality Studies 3
Prereq.: WGSS 200. Intermediate course exploring specific areas of inquiry and research in women, gender and sexuality studies. Irregular.

WGSS 400 Feminist Theory 3
Formerly WS 400. Prereq.: WGSS (was WS) 200 or permission of instructor. Examination of central theoretical and critical concepts, ideas and traditions in the development of feminist theory. No credit will be given to students with credit for WS 400. Spring.

WGSS 430 Internship in Women, Gender, and Sexuality Studies 3
Formerly WS 430. Prereq.: WGSS 200 (formerly WS 200). Students will be placed with an appropriate off-campus agency and will be required to work there from 6 to 8 hours per week. The course and placement are structured to each students needs. No credit will be given to students with credit for WS 430.

WGSS 435 Images of Gender in the Media. 3
Formerly WS 435. Examines media constructions and representations of femininity and masculinity. Focus on popular forms of media including television, film, and advertising. No credit will be given to students with credit for WS 435 or ANTH 435. Spring.

WGSS 448 Psychology of Women 3
Formerly WS 448. Review of research and theories pertaining to the psychology 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. No credit will be given to students with credit for WS 448 or PSY 448. Cross listed with PSY 448.

WGSS 469 Readings in Women, Gender, and Sexuality Studies 3
Formerly WS 469. Prereq.: WGSS 200 (formerly WS 200) and permission of instructor. Graduate students must have permission of instructor. Independent study in women, gender, and sexuality studies of special interest to students under the supervision of one or more affiliated woman, gender and sexuality studies faculty members. No credit will be given to students with credit for WS 469.

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.

FACULTY, ADMINISTRATORS, LIBRARIANS

Note: Date of appointment to Central Connecticut State University in parenthesis.

JOHN W. MILLER, Ph.D., Purdue University; *President* (2005).

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*

To be named — *Distinguished Professor of Public Policy, William A. O'Neill Endowed Chair in Public Policy and Practical Politics*

CSU PROFESSOR:

FELTON O. BEST, Ph.D., Ohio State University; *CSU Professor of Philosophy* (1991).

NORTON H. MEZVINSKY, Ph.D., University of Wisconsin; *CSU Professor of History* (1967).

ENDOWED CHAIR HOLDERS:

MIECZYSLAW B. BISKUPSKI, Ph.D., Yale University; *Professor of History and holder of the Stanislaus A. Blejwas Endowed Chair in Polish and Polish American Studies* (2002).

BRIAN CHARLEBOIS, B.S., University of Connecticut; *Assistant Professor of Finance and holder of the American Savings Foundation Endowed Chair in Banking and Finance* (2006).

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; *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).

MELANIE ABEL, M.S., University of Connecticut; *Athletics Fiscal Officer Intercollegiate Athletics* (2006).

STEPHEN ADAIR, Ph.D., Northeastern University; *Professor of Sociology* (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).

I. BEN AKIN, M.S., Istanbul School of Technology, Turkey; *University Architect* (2005).

CHAD ALBERT, B.S., Central Connecticut State University; *Programmer Specialist, School of Education and Professional Studies* (2003).

NIDAL AL-MASOUD, Ph.D., State University of New York at Buffalo; *Assistant Professor of Engineering* (2003).

MIKE ALEWITZ, M.F.A., Massachusetts College of Art, *Associate Professor of Art* (2000).

CHRISTINE ALEXANDRE, B.S., Central Connecticut State University; *Technical Support Specialist, Information Technology Services* (2007).

TAROME ALFORD, M.A., Southern Illinois University; *Director of Residence Life* (2005).

JEAN ALCANDRO, M.S., Central Connecticut State University; *Associate Director of Residence Life* (1984).

ANNE B. ALLING, M.P.A., University of Connecticut; *Chief Human Resources Officer* (2005).

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., A.V.S., University of Florida; *Assistant Professor of Engineering* (1991).

MARIA ALVAREZ, M.A., Central Connecticut State University; *Associate Registrar for Scheduling and CAPP* (1983).

CLIFFORD E. ANDERSON, Ph.D., University of New Mexico; *Assistant Professor of Engineering* (2005).

CARRIE ANDREOLETTI, Ph.D., Brandeis University; *Assistant Professor of Psychology* (2004).

MICHAEL ANSARRA, M.S., Southern Connecticut State University; *Senior Associate Athletics Director* (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 and Biochemistry* (1989).

DOMINGO ARIAS, M.A., University of Chile; *Assistant Director, Career Services and Cooperative Education* (1991).

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; *Professor of Teacher Education* (2001).

OLUWATOYIN AYENI, M.B.A., Central Connecticut State University; *International Student and Scholar Services Coordinator* (2007).

RICHARD BACHOO, M.P.A., University of Connecticut; *Chief Administrative Officer* (1998).

BILL BALL, M.S., University of Bridgeport; *Head Swimming and Diving Coach, Intercollegiate Athletics* (2003).

KATHLEEN BANTLEY, J.D., Western New England College; *Assistant Professor of Criminology and Criminal Justice* (2003).

CATHERINE R. BARATTA, Ph.D., Syracuse University; *Associate Professor of Social Work* (1998).

STUART BARNETT, Ph.D., State University of New York-Buffalo; *Professor of English* (1992).

BURLIN BARR, Ph.D., Cornell University; *Assistant Professor of English* (2006).

CANDACE BARRINGTON, Ph.D., Duke University; *Associate Professor of English* (2001).

SWAMY BASIM, Ph.D., New Jersey Institute of Technology; *Assistant Professor of Engineering* (2004).

EUGENE BATEN, Ed.D., Harvard University; *Associate Professor of Management and Organization* (1988).

PETER F. BAUMANN, Ph.D., Polytechnic University; *Associate Professor of Engineering* (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).

ZAKARI BELLO, Ph.D., Virginia Polytechnic; *Associate Professor of Finance* (2002).

RICHARD W. BENFIELD, Ph.D., University of Oklahoma; *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).

GREGORY BERNARD, B.S., Southern Connecticut State University; *Assistant to the Director/Residence Hall Director, Residence Life* (2006).

STEVEN BERNSTEIN, M.L.S., Southern Connecticut State University; *Assistant Librarian, Catalog Department* (2006).

FELTON O. BEST, Ph.D., Ohio State University; *Assistant to the Dean, School of Arts and Sciences, and CSU Professor of Philosophy* (1991).

KAREN C. BEYARD, Ph.D., Arizona State University; *Professor of Educational Leadership* (1986).

MATTHEW BIELAWA, M.A., New York University; *Associate Registrar for Operations* (2003).

LISA MARIE BIGELOW, M.B.A., Central Connecticut State University; *Associate Director, George R. Muirhead Center for International Education* (1987).

ROGER BILISOLY, Ph.D., Ohio State University; *Assistant Professor of Mathematical Sciences* (2004).

JAN BISHOP, Ed.D., Arizona State University; *Assistant Professor of Physical Education and Human Performance* (2002).

RICHARD BISHOP, M.S.A., University of Notre Dame; *Director of Financial Aid and Interim Director of Recruitment and Admissions* (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).

JAMES BLAHA, B.S., Pace University; *Programmer Specialist, Information Technology Services* (2005).

DAVID BLITZ, Ph.D., McGill University; *Professor of Philosophy* (1989).

THOMAS BOHLKE, M.S., Central Connecticut State University; *Customer Support Center Supervisor, Information Technology Services* (2000).

LYNN BONESIO-PETERSON, 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).

MARY ELLEN BOWEN, M.L.S., Southern Connecticut State University; *Assistant Librarian, Acquisitions/Serials Department* (2007).

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).

CASSANDRA BROADUS-GARCIA, Ph.D., Ohio State University; *Associate Professor of Art* (1994).

THOMAS BRODEUR, B.A., University of Connecticut; *Purchasing Manager* (1989).

WALTON BROWN-FOSTER, Ph.D., University of Michigan; *Professor of Political Science* (1984).

GLORIA A. BROWN-WRIGHT, Ph.D., University of Texas-Austin; *Assistant Professor of Chemistry* (2004).

JAMES BRUNER, B.S., Daniel Webster College; *Business and Facilities Manager, ITBD* (1994).

JAMES BRYANT, B.A., Central Connecticut State University; *Administrative Coordinator II, Design (Graphic/Information)* (1998).

LISA M. BUCHER, B.S., Central Connecticut State University; *Accounting and Budget Assistant, Budget Office* (2006).

PAULA W. BUNCE, B.A., Eastern Connecticut State University; *Institutional Research Specialist, Planning and Institutional Effectiveness* (1994).

THOMAS BURKHOLDER, Ph.D., University of Virginia; *Professor of Chemistry and Biochemistry* (1992).

WENDY WILTON BUSTAMANTE, B.S., Central Connecticut State University; *Administrative Assistant to the President* (1986).

CHARLES BUTTON, Ph.D., University of Cincinnati; *Assistant Professor of Geography* (2004).

JAMES BUXTON, M.F.A., University of Pennsylvania; *Professor of Art* (1991).

LEAH BYRD, B.A., King's College; *Assistant Director, Recruitment and Admissions* (2006).

JESSICA CABANILLAS, B.S., Central Connecticut State University; *Associate in Multicultural Affairs* (2002).

GLORIA MARIE CALIENDO, Ph.D., University of Connecticut; *Associate Professor of Modern Languages* (1991).

- JOANNE CALLAHAN, *Assistant in Human Resources 2, Human Resources (2005).*
- 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).*
- 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 Human Performance (1971).*
- A. DAVID CAPPELLA, Ed.D., Boston University; *Associate Professor of English (2001).*
- JENNIFER CAPUTO, B.A., Western Connecticut State University; *Customer Support Center Lead, Information Technology Services (2005).*
- J. A. TONY CARBERRY, E.M.B.A., University of New Haven School of Business; *Associate Director of Recruitment and Admissions (2002).*
- DOUGLAS R. CARTER, Ph.D., University of Illinois; *Professor of Biology (1991).*
- MARÍA LOURDES CASAS, Ph.D., University of Wisconsin-Madison; *Assistant Professor of Modern Languages (2007).*
- RONNIE PAUL CASELLA, Ph.D., Syracuse University; *Associate Professor of Teacher Education (1998).*
- NELSON CASTAÑEDA, Ph.D., Indiana University; *Associate Professor of Mathematical Sciences (1998).*
- STEVEN CAVALERI, Ph.D., Rensselaer Polytechnic Institute; *Professor of Management and Organization (1980).*
- MARY CAVANAUGH, M.S., University of New Haven; *University Human Resources Administrator, Human Resources (2001).*
- CYNTHIA B. CAYER, M.S., Central Connecticut State University; *Director of Development and Alumni Affairs (1988).*
- ROBERT E. CERNOCK, M.S., Dominican University; *Chief Information Officer (2006).*
- KIMBERLY CHAGNON, M.S. Central Connecticut State University; *University Comptroller, Budget Office (1998).*
- DENISE CHANCEY, *Legal Assistant to Counsel, Office of Counsel to the President (2004).*
- MITCH CHARKIEWICZ, M.B.A., American International College; *Assistant Professor of Economics (2004).*
- EMILY CHASSE, M.L.S., University of Rhode Island; *Associate Librarian, On-line Services (1982).*
- YUANQIAN CHEN, Ph.D., University of Kansas; *Professor of Mathematical Sciences (1992).*
- PAUL P. CHU, Docteur en Sciences Psychologiques, Université Libre De Bruxelles; *Associate Professor of Psychology (1969).*
- OIYUN CHUNG, M.B.A., Rensselaer Polytechnic Institute; *Planner/Analyst, Planning and Institutional Effectiveness (2003).*
- RICHARD CHURCHILL, M.L.S., University of Rhode Island; *Associate Librarian, Assistant Head of Reference (1992).*
- SALVATORE CINTORINO, M.S., Central Connecticut State University; *Assistant Chief Administrative Officer, Administrative Affairs (1992).*
- MATTHEW H. CISCEL, Ph.D., University of South Carolina; *Associate Professor of English (2002).*
- GEORGE F. CLAFFEY, Ed.D., Indiana University; *Professor of Management Information Systems (1979).*
- ANDREW CLARK, B.A., Colgate University; *Administrator, Institute for the Study of Crime and Justice (2005).*
- BARBARA CLARK, Ed.D., University of Hartford; *Assistant Professor of Teacher Education (2005).*
- GINNE RAE CLAY-GILMORE, M.P.A., University of Hartford; *State Director of the Connecticut Small Business Development Center, ITBD (2007).*
- JACQUELINE COBBINA-BOIVIN, M.S., Central Connecticut State University; *Coordinator, Ruthe Boyea Women's Center (2000).*
- SARAH COBRAIN, M.A., Bowling Green State University; *Assistant Director, Career Services and Cooperative Education (1985).*
- LILA CODDINGTON, M.F.T., Central Connecticut State University; *Assistant Director and Project Coordinator, Central Access and Student Development, Counseling and Family Therapy (2005).*
- BONNIE L. COFER, M.Ed., Springfield College; *Immigration Specialist, George R. Muirhead Center for International Education (1997).*
- RALPH S. COHEN, Ph.D., University of Missouri-St. Louis; *Professor of Counseling and Family Therapy (1993).*
- STEPHEN A. COHEN, Ph.D., University of California, Irvine; *Associate Professor of English (2002).*
- MARY COLLINS, M.A., University of Virginia; *Assistant Professor of English (2007).*
- GLADYS COLON-LAWSON, M.S., Springfield College; *Assistant Director of Financial Aid (2006).*
- JOSEPH CONNELL, M.S., Central Connecticut State University; *Assistant Director of Facilities Management (Athletic Facilities) (2007).*
- JAMES M. CONWAY, Ph.D., University of Connecticut; *Professor of Psychology (1998).*
- TIMOTHY CORBITT, M.S.W., University of Connecticut; *Director, Counseling and Wellness (2006).*
- MARY ANN COSTA, M.A., Central Connecticut State University; *Science Technical Specialist, Biology (2000).*
- STEPHEN COSTANZA, Ph.D., Louisiana State University; *Assistant Professor of Criminology and Criminal Justice (2007).*
- STEPHEN COURTNEY, J.D., University of Connecticut School of Law; *Labor and Employment Attorney, Human Resources (2004).*
- STEPHEN COX, Ph.D., Michigan State University; *Professor of Criminology and Criminal Justice (1996).*
- TIMOTHY CRAINE, Ph.D., Wayne State University; *Professor of Mathematical Sciences (1993).*
- CHERYL CRESPI, J.D., University of Connecticut School of Law; *Associate Professor of Accounting (2005).*
- WAYNE CROSSWAY, *Access and Security Coordinator (2007).*
- ROBERT CROUSE, Ph.D., University of Rhode Island; *Professor of Mathematical Sciences (1987).*
- CHRISTINE CRUMLEY, A.S., Tunxis Community College; *CSU Administrative Assistant, Office of Chief Administrative Officer (2003).*
- GUY CRUNDWELL, Ph.D., Purdue University; *Professor of Chemistry and Biochemistry (1998).*
- GAIL A. CUETO, Ph.D., New York University; *Professor of Teacher Education (1994).*
- MATTHEW CUMMISKEY, Ph.D., Temple University; *Assistant Professor of Physical Education and Human Performance (2006).*
- KATHY CZYRNIK, Ph.D., University of Connecticut; *Associate Professor of Finance (1998).*
- DANIEL D'ADDIO, D.M.A., University of Michigan; *Professor of Music (1996).*
- MONIQUE DALEY, B.A., Western Connecticut State University; *Program Assistant, Ruthe Boyea Women's Center (2007).*
- 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; *Technical Support Specialist, Information Technology Services (1988).*
- MICHAEL A. DAVIS, Ph.D., Harvard University; *Associate Professor of Biomolecular Sciences (1998).*
- RACHAEL DAVIS, B.S., Southern Connecticut State University; *Professional Development Specialist, ITBD (2007).*
- SUSAN DAVIS, *Business Development Coordinator, ITBD (1998).*
- BRUCE P. DAY, Ph.D., University of New Hampshire; *Associate Professor of Sociology (1998).*
- RAY A. DeCORMIER, Ph.D., University of Bradford Management Center (UK); *Professor of Marketing (1983).*
- JOSÉ-CARLOS DEL AMA GONZALO, Ph.D., Johannes Gutenberg Universität (Germany); *Associate Professor of Communication (2003).*
- JAMES A. DeLAURA, Ed.D., University of Northern Colorado; *Professor of Technology and Engineering Education (K-12) (1976).*
- PATRICIA DELOY, M.S., Central Connecticut State University; *Director, Career Services and Cooperative Education (1984).*
- THOMAS DELVENTHAL, M.F.A., University of Pittsburgh; *Associate Professor of Theatre (1998).*
- BARBARA DeMAIO, *Assistant Director, Facilities Support Services (1995).*
- ELENE S. DEMOS, Ph.D., University of Wisconsin-Madison; *Professor of Reading and Language Arts (1991).*
- KENNETH DeSTEFANIS, B.S., Southern Connecticut State University; *Recreation Specialist, Student Activities/Leadership Development (1985).*
- ALBERTA DEUTSCH, *Assistant Director of Financial Aid (2003).*
- MICHAEL S. DEVINE, JR., B.S., Central Connecticut State University; *Assistant Computer Coordinator, 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).*
- MICHELE DISCHINO, Ph.D., University of Pennsylvania; *Assistant Professor of Technology and Engineering Education (K-12) (2006).*
- TIFFANY DOAN, Ph.D., University of Texas-Arlington; *Assistant Professor of Biology (2004).*
- BETSY L. DOBBS-McAULIFFE, Ph.D., Duke University; *Assistant Professor of Biomolecular Sciences (2007).*
- ERIC DOBLER, M.S., Central Connecticut State University; *Assistant Director, Recruitment and Admissions (2004).*
- FRANCISCO DONIS, Ph.D., CUNY Graduate Center; *Professor of Psychology (1992).*
- MARIANNE J. D'ONOFRIO, Ph.D., The Ohio State University; *Professor of Management Information Systems (1989).*
- D'ARCY DORNAN, Ph.D., University of California-Davis; *Assistant Professor of Geography (2005).*
- ROBERT DOWLING, Ph.D., Graduate Center of City University of New York; *Associate Professor of English (2004).*
- DARYLL C. DOWTY, M.S., Central Connecticut State University; *Professor of Manufacturing and Construction Management (1979).*
- CHRISTINE DOYLE, Ph.D., University of Connecticut; *Professor of English (1993).*
- CHRISTOPHER DUKES, B.A., Central Connecticut State University; *University Judicial Officer, Students Affairs (1997).*
- KIMBERLEY A. DUMOUCHEL, M.S., Central Connecticut State University; *Assistant Director, Career Services and Cooperative Education (1988).*
- ROBERT DUNNE, Ph.D., Lehigh University; *Professor of English (1992).*
- JEROLD J. DUQUETTE, Ph.D., University of Massachusetts-Amherst; *Associate Professor of Political Science (2000).*
- MONIQUE DURANT, J.D., Western New England College; *Associate Professor of Accounting (2007).*
- DARIUS DZIUDA, Ph.D., Technical University of Warsaw; *Assistant Professor of Mathematical Sciences (2005).*
- GHASSAN EL-EID, Ph.D., University of Nebraska; *Associate Professor of Political Science (1989).*
- GLORIA EMEAGWALI, Ph.D., Ahmadu Bello University; *Professor of History (1991).*
- BOB EMILIANI, Ph.D., Brown University; *Associate Professor of Manufacturing and Construction Management (2005).*
- 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, Counseling and Wellness Center (1995).*
- SHILPA ENUGALA, M.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services (2005).*
- SCOTT M. ERARDI, M.A., University of Connecticut; *Director of Media Services, Information Technology Services (1999).*

- MARY P. ERDMANS, Ph.D., Northwestern University; *Professor of Sociology* (2002).
- MICHAEL ERICKSEN, M.S., Central Connecticut State University; *Athletic Trainer III, Intercollegiate Athletics* (2001).
- MARK EVANS, Ph.D., University of Pittsburgh; *Associate Professor of Physics and Earth Sciences* (2004).
- SHERI O. FAFUNWA-NDIBE, M.F.A., University of Massachusetts; *Professor of Art* (1990).
- CAROLYN FALLAHI, Ph.D., University of Missouri; *Assistant Professor of Psychology* (2004).
- MARIANNE FALLON, Ph.D., University of Toronto; *Assistant Professor of Psychology* (2006).
- MIN FANG, M.S., Central Connecticut State University; *Administrative Support Coordinator, School of Arts and Sciences* (2001).
- ELIZABETH FANGIULLO, A.S., Briarwood College; *Bursar* (1989).
- FARID FARAHMAND, Ph.D., University of Texas-Dallas; *Assistant Professor of Computer Electronics and Graphics Technology* (2005).
- JOSEPH FARHAT, Ph.D., University of New Orleans; *Assistant Professor of Finance* (2006).
- KIMBERLY FARRINGTON, M.L.S., Southern Connecticut State University; *Associate Librarian/Interlibrary Loan, Elihu Burritt Library* (2001).
- JUDITH FARYNIARZ, Ed.D., University of Hartford; *Assistant Professor of Educational Leadership* (2003).
- MICHELE FAVATA, B.S., Manhattan College; *Assistant Professor of Technology and Engineering Education (K-12)* (2006).
- 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).
- CATHERINE FELLOWS, M.Ed., Boston University; *Professor of Physical Education and Human Performance/Theatre* (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; *Associate Director, Marketing and Communications* (1995).
- GLYNIS FITZGERALD, Ph.D., State University of New York at Buffalo; *Associate Professor of Communication* (1998).
- BRIAN FOLKER, Ph.D., New York University; *Assistant Professor of English* (2004).
- 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).
- SUSAN FORD, B.S., New Hampshire College; *Project Assistant, Office of Field Experiences* (1996).
- JOHN FOSHAY, Ed.D., West Virginia University; *Associate Professor of Special Education* (2001).
- PATRICK N. FOSTER, Ph.D., University of Missouri-Columbia; *Associate Professor of Technology and Engineering Education (K-12)* (2001).
- KAREN FRANCIANI, M.B.A., Central Connecticut State University; *Capital Project Administrator* (1999).
- FRANK J. FRANGIONE, Ph.D., University of Michigan; *Professor of Physical Education and Human Performance* (1970).
- LISA FRANK, M.B.A., Hofstra University; *Associate Professor of Finance* (2000).
- G. ALLAN FRAZIER, B.S., Brigham Young University; *Financial Aid Counselor* (2005).
- 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).
- ERIN GALLAGHER-DOWLING, B.A., Central Connecticut State University; *Assistant Director, Residence Life* (2003).
- CHRISTOPHER GALLIGAN, M.B.A., Nichols College; *Vice President for Institutional Advancement* (2003).
- JUSTINE GAMACHE, M.S., Central Connecticut State University; *Assistant to the Director, Advising Center* (2005).
- VICENTE G. GARCIA, M.F.A., University of North Texas; *Professor of Art* (1998).
- MYRNA E. GARCIA-BOWEN, M.S., Eastern Connecticut State University; *Director of Academic Articulations and Partnerships* (1998).
- ANTONIO GARCÍA-LOZADA, Ph.D., University of Maryland; *Professor of Modern Languages and University Ombudsperson* (1994).
- PATRICIA GARDNER, M.S., Central Connecticut State University; *Associate Director of Graduate Recruitment and Admissions* (1995).
- ALFRED GATES, P.E., Ph.D., University of Connecticut; *Professor of Engineering* (1994).
- JACLYN GELLER, Ph.D., New York University; *Assistant Professor of English* (2004).
- MICHAEL GENDRON, Ph.D., State University of New York-Albany; *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; *Associate Professor of English* (1997).
- MARIETTE GIMMARTINO, *Assistant Registrar for Information Management, Registrar's Office* (1988).
- LYNN PAPACOSTAS-GINOLFI, M.A., Central Connecticut State University; *ConnCAP Site-Coordinator for New Britain* (2006).
- VICTORIA K. GINTER, M.S., C.R.C., Central Connecticut State University; *Coordinator of Substance Abuse Programs, Counseling and Wellness Center* (2002).
- NEIL M. GLAGOVICH, Ph.D., University of Pittsburgh; *Associate Professor of Chemistry and Biochemistry* (1999).
- LEAH S. GLASER, Ph.D., Arizona State University; *Assistant Professor of History* (2006).
- SARAH GLASSER, B.S., Rochester Institute of Technology; *Systems Support Assistant, Information Technology Services* (2004).
- 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; *Associate Director of Development* (1998).
- IVAN S. GOTCHEV, Ph.D., Sofia University; *Professor of Mathematical Sciences* (2001).
- S. LOUISE GOULD, Ed.D., Columbia University; *Associate Professor of Mathematical Sciences* (2000).
- LAWRENCE P. GRASSO, D.B.A., Boston University; *Professor of Accounting* (2003).
- JOYCE GRAY, *CSU Administrative Assistant, Office of Vice President for Student Affairs* (1983).
- SHAUN GREEN, B.S.C., Davis and Elkins College; *Assistant Professor of Intercollegiate Athletics and Men's Soccer Head Coach* (1986).
- HENRY GREENE, Ph.D., University of Massachusetts; *Assistant Professor of Marketing* (2006).
- JESSICA GREENEBAUM, Ph.D., Syracuse University; *Associate Professor of Sociology* (2000).
- BRIANN GREENFIELD, Ph.D., Brown University; *Associate Professor of History* (2001).
- JAMES GRUPP, B.S., University of Connecticut; *Coordinator of Capital Projects and Facilities Planning* (2006).
- DAWN M. GRZAN, M.B.A., Dowling College; *Director of Sponsored Programs* (2007).
- 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).
- MARY PAT HAGER, M.B.A., Rensselaer Polytechnic Institute; *Associate Counselor, Education and Professional Studies* (1988).
- SYLVIA L. HALKIN, Ph.D., University of Wisconsin; *Professor of Biology* (1992).
- PHILIP P. HALLORAN, Ph.D., University of Connecticut; *Professor of Mathematical Sciences* (1991).
- DAVID V. HARACKIEWICZ, D.P.E., Springfield College; *Professor of Physical Education and Human Performance* (1993).
- MELINDA HARLOW, M.A., Boston University; *Assistant to the Director/Area Coordinator, Residence Life* (2003).
- JOHN E. HARMON, Ph.D., Boston University; *Professor of Geography* (1979).
- DREW HARRIS, Ph.D., New York University; *Associate Professor of Management and Organization* (2006).
- HEIDI A. HARTWIG, Ph.D., State University of New York-Buffalo; *Assistant Professor of English* (2006).
- SCOTT HAZAN, M.S., Long Island University; *Director, Student Activities/Leadership Development* (2007).
- THOMAS HAZUKA, Ph.D., University of Utah; *Professor of English* (1992).
- ZE HE, Ph.D., University of California-Davis; *Assistant Professor of Chemistry and Biochemistry* (2005).
- JENNIFER HEDLUND, Ph.D., Michigan State University; *Associate Professor of Criminology and Criminal Justice* (2000).
- JOHN A. HEITNER, Ph.D., University of Rochester; *Associate Professor of English* (1965).
- PATRICIA HENSLEY, Ph.D., Smith College School for Social Work; *Associate Professor of Social Work* (1998).
- FAITH HENTSCHEL, Ph.D., Yale University; *Professor of Art* (1983).
- DEBORAH HERMAN, M.L.S., State University of New York at Buffalo; *Assistant Librarian, Reference* (2004).
- KATHERINE A. HERMES, Ph.D., Yale University; *Associate Professor of History* (1997).
- RAMON L. HERNANDEZ, M.S., Central Connecticut State University; *Assistant Dean of Students, Student Affairs* (1988).
- CHARLES HICKEY, B.G.S., University of Connecticut; *Baseball Head Coach, Intercollegiate Athletics* (2000).
- ELIZABETH HICKS, M.S., Southern Connecticut State University; *Associate Director, Advising Center* (1978).
- JANE M. HIGGINS, Ph.D., University of Connecticut; *Assistant Vice President for Student Affairs/Dean of Students* (1980).
- NANCY HOFFMAN, Ed.D., Pennsylvania State University; *Professor of Teacher Education* (1998).
- HOLLY HOLLANDER, M.S., Central Connecticut State University; *Director of Office of Field Experiences* (2000).
- DAVID HONYOTSKI, M.S., Hartford Graduate Center; *Environmental Health and Safety Coordinator* (2007).
- BARRY HOOPENGARDNER, Ph.D., University of Connecticut; *Assistant Professor of Biomolecular Sciences* (2005).
- MARY HORAN, M.Ed., Northeastern University; *Assistant Dean, School of Arts and Sciences* (2004).
- STEVEN HOROWITZ, Ph.D., University of Utah; *Associate Professor of Psychology* (1991).
- BRADEN J. HOSCH, Ph.D., University of Wisconsin-Madison; *Director of Institutional Research and Assessment* (2007).
- MAXINE HOWELL, Ed.D., University of Massachusetts at Amherst; *Assistant Professor of Teacher Education* (1990).
- DEBORAH HUNT, B.S., University of Connecticut; *Programmer Specialist, Information Technology Services* (1990).
- EILEEN M. HURST, M.Ed., Westfield State College; *Associate Director, Center for Public Policy and Social Research* (1997).
- A. PABLO IANNONE, Ph.D., University of Wisconsin; *Professor of Philosophy* (1983).
- EDWARD IGLESIAS, M.L.I.S., University of Texas-Austin; M.A., Texas A & M International University; *Assistant Librarian, Library Services* (2005).
- SAM IRIZARRY, M.S., Central Connecticut State University; *Community Business Development Specialist, Institute of Technology and Business Development* (2005).
- ANITA JACKSON, Ph.D., University of Arkansas; *Professor of Marketing* (1994).
- MARK JACKSON, Ph.D., University of Texas-Dallas; *Assistant Professor of Biology* (2006).

- ANDRZEJ T. JARMOSZKO, Ph.D., University of Arizona; *Associate Professor of Management Information Systems (2001)*.
- JEREMIAH N. JARRETT, Ph.D., Tufts University; *Professor of Biology (1997)*.
- CHUN JIN, Ph.D., University of Southwestern Louisiana; *Professor of Mathematical Sciences (1994)*.
- BEVERLY JOHNSON, Ph.D., Indiana University of Pennsylvania; *Associate Professor of English (1997)*.
- FREDERICK JOHNSON, M.S., Central Connecticut State University; *Server Administrator, Information Technology Services (1994)*.
- LOUISE B. JOHNSON, M.F.A., Ohio University; *Professor of Theatre (1968)*.
- MONTEZ JOHNSON, M.S., Central Connecticut State University; *Assistant Director, Advising Center (1994)*.
- LYNN JOHNSON-CORCORAN, M.L.S., University of Rhode Island; *Associate Librarian, Collection Development (1977)*.
- CAROL A. JONES, Ph.D., University of Surrey; *Professor of Chemistry and Biochemistry (1989)*.
- CHARLES JONES, JR., M.S., Central Connecticut State University; *Director of Intercollegiate Athletics (1970)*.
- JASON B. JONES, Ph.D., Emory University; *Associate Professor of English (2003)*.
- MARK A. JONES, Ph.D., Columbia University; *Assistant Professor of History (2001)*.
- SHELLY JONES, Ph.D., Illinois State University; *Assistant Professor of Mathematical Sciences (2006)*.
- CATHERINE H. JOST, B.A., Central Connecticut State University; *Assistant Director of Alumni Affairs (1994)*.
- YANAN JU, Ph.D., University of Belgrade; *Professor of Communication (1987)*.
- JONATHAN JUDD, M.S., Central Connecticut State University; *Assistant Director of Admissions (2006)*.
- ROBIN S. KALDER, Ed.D., Columbia University; *Associate Professor of Mathematical Sciences (2000)*.
- ELIZABETH KAMINSKI, Ph.D., Ohio State University; *Assistant Professor of Sociology (2003)*.
- ELIAS KAPETANOPOULOS, Ph.D., Yale University; *Professor of History (1968)*.
- MIMI KAPLAN, B.A., University of Connecticut; *Assistant Director of Sponsored Programs (1994)*.
- MARTIN A. KAPPER, Ph.D., Louisiana State University; *Associate Professor of Biomolecular Sciences (1992)*.
- JULIA KARA-SOTERIOU, Ph.D., University of Connecticut; *Assistant Professor of Reading and Language Arts (2006)*.
- RENE KARAS-JOHNSON, M.S., Central Connecticut State University; *Facilities Operations Coordinator (2006)*.
- PAUL KARPUR, Ph.D., University of California; *Professor of English (1992)*.
- GEORGE KAWECKI, M.S.Ed., Central Connecticut State University; *Assistant Professor of Intercollegiate Athletics and Head Women's Cross Country and Track Coach (1992)*.
- LAURA-LEE CLANCY KELLEY, Ph.D., University of Georgia; *Science Technical Specialist, Chemistry and Biochemistry (2007)*.
- BRIAN K. KERSHNER, D.M.A., Florida State University; *Assistant Professor of Music (2004)*.
- DAVID A. KIDECKEL, Ph.D., University of Massachusetts; *Professor of Anthropology (1977)*.
- PETER J. KILDUFF, B.A., Central Connecticut State University; *Director of University Relations, Marketing and Communication (1989)*.
- KI HOON KIM, Ph.D., University of Connecticut; *Professor of Economics (1967)*.
- THOMAS L. KING, B.S., Central Connecticut State University; *Assistant Campus One Card Administrator, Card Office (2003)*.
- THOMAS R. KING, Ph.D., University of Wisconsin; *Professor of Biomolecular Sciences (1992)*.
- BRADLEY P. KJELL, Ph.D., University of Wisconsin; *Professor of Computer Science (1992)*.
- LAWRENCE D. KLEIN, Ed.D., Indiana University; *Professor of Teacher Education (1970)*.
- STEVEN KLIGER, J.D., University of Connecticut; *Executive Director, Center for Public Policy and Social Research (1999)*.
- DAWN KLIMKIEWICZ, M.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services (1992)*.
- KATHLEEN A. KNOPF, B.A., Central Connecticut State University; *Grants Administration Manager (1991)*.
- CARL KNOX, D.M.A., Michigan State University; *Associate Professor of Music (1997)*.
- KHOON Y. KOH, Ph.D., Texas A&M University; *Associate Professor of Marketing (2002)*.
- ROBERTA KOPLOWITZ, B.S., Eastern Connecticut State University; *Team Advisor, Academic Center for Student Athletes (1993)*.
- JACOB KOVEL, Ph.D., Georgia Institute of Technology; *Associate Professor of Manufacturing and Construction Management (2001)*.
- JANICE M. KOZOVICH, M.A., University of Chicago; *Associate Librarian, Head of Access Services (1976)*.
- ZDZISLAW B. KREMENS, D.Sc., Technical University of Wroclaw; *Dean, School of Technology (1998)*.
- STANLEY KULENSKI, A.S., Greater New Haven State Technical College; A.S., College of Grays Lake; *Data Network Specialist, Information Technology Services (2007)*.
- CATHERINE KURKJIAN, Ph.D., University of Northern Colorado; *Professor of Reading and Language Arts (1995)*.
- STANISLAV KURKOVSKY, Ph.D., University of Louisiana; *Associate Professor of Computer Science (2005)*.
- PETER A. KWAKU KYEM, Ph.D., Clark University; *Professor of Geography (1997)*.
- CHESTER LABEDZ, Ph.D., Boston College; *Assistant Professor of Management and Organization (2007)*.
- KRISTIN LAKE-PIANO, M.S., Central Connecticut State University; *Assistant Director, Recruitment and Admissions (2005)*.
- PATRICIA A. LANE, B.A., Wesleyan University; *Assistant Director of Marketing and Communications (1995)*.
- ELIZABETH LANGHORNE, Ph.D., University of Pennsylvania; *Associate Professor of Art (1992)*.
- PALOMA LAPUERTA, Ph.D., Université de Genève; *Professor of Modern Languages (1998)*.
- DANIEL T. LAROSE, Ph.D., University of Connecticut; *Professor of Mathematical Sciences (1996)*.
- KRISTINE LARSEN, Ph.D., University of Connecticut; *Professor of Physics and Earth Sciences (1989)*.
- FREDERIC LATOUR, Ph.D., Massachusetts Institute of Technology; *Assistant Professor of Mathematical Sciences (2006)*.
- LINDA LAURENT, Ph.D., New York University; *Professor of Music (1992)*.
- MARGARET LEAKE, M.A., University of Connecticut; *Director of The Learning Center (1986)*.
- ROBERT M. LeBARON, A.A., Manchester Community College; *Director of Engineering (1990)*.
- LEE WONSICK LEE, Ph.D., State University of New York at Buffalo; *Professor of Management and Organization (1994)*.
- JOO ENG LEE-PARTRIDGE, Ph.D., University of Minnesota; *Professor of Management Information Systems (2002)*.
- JEAN LEFEBVRE, Ph.D., Syracuse University; *Professor of Marketing (2001)*.
- LENNARD LEMA, C.M.E., M.S., Central Connecticut State University; *Associate Professor of Engineering (1978)*.
- PETER LeMAIRE, Ph.D., Ohio University; *Professor of Physics and Earth Sciences (1988)*.
- PAULETTE LEMMA, Ed.D., Pennsylvania State University; *Associate Vice President for Academic Affairs and Dean, School of Graduate Studies (1988)*.
- ROY LEONARDI, Ed.D., University of Vermont; *Assistant Professor of Special Education (2007)*.
- LESLIE R. LEONG, D.B.A., Nova Southeastern University; *Professor of Management Information Systems (2001)*.
- ERIC LEONIDAS, Ph.D., New York University; *Assistant Professor of English (2001)*.
- SALLY LESIK, Ed.D., Harvard University; *Associate Professor of Mathematical Sciences (2002)*.
- LAURA LEVINE, Ph.D., University of Michigan; *Associate Professor of Psychology (1994)*.
- MARGARET LEVVIS, Ph.D., University of Tennessee; *Associate Professor of Nursing (1993)*.
- JISONG LI, M.S., Rensselaer at Hartford; *Programmer Specialist, Information Technology Services (2005)*.
- CARLOS F. LIARD-MURIENTE, Ph.D., University of Massachusetts; *Assistant Professor of Economics (2006)*.
- CHENG SING LIEN, M.A., Southern Illinois University; *Associate Professor of Modern Languages (1973)*.
- PENELOPE LISI, Ph.D., University of Wisconsin; *Professor of Educational Leadership (1994)*.
- THOMAS LORENZETTI, B.S., Charter Oak State College; *Business Development Manager, Institute for Technology and Business Development (2003)*.
- JAMES C. LOUGHLIN, Ph.D., Clark University; *Professor of Economics (1968)*.
- CARL R. LOVITT, Ph.D., University of Wisconsin-Madison; *Provost and Vice President for Academic Affairs (2006)*.
- KERI LUPACHINO, B.A., Central Connecticut State University; *Assistant Director, Financial Aid (1997)*.
- DRINA M. LYNCH, M.A., Central Connecticut State University; *Assistant Dean, School of Graduate Studies (1970)*.
- CAROLYN MAGNAN, J.D., University of Connecticut School of Law; *Counsel to the President (2000)*.
- AMELIA S. MAGNO, B.A., Smith College; *Director of User Services and Campus One Card, Information Technology Services (1999)*.
- MARY ANN MAHONY, Ph.D., Yale University; *Associate Professor of History (2003)*.
- ERAN MAKOVER, Ph.D., Hebrew University; *Assistant Professor of Mathematical Sciences (2004)*.
- WAYNE R. MAMED, M.S., Central Connecticut State University; *Director of Student Center (1984)*.
- PAUL MANWARING III, M.S., Central Connecticut State University; *Athletic Trainer II, Intercollegiate Athletics (2003)*.
- ZDRAVKO MARKOV, Ph.D., Institute of Mathematics, Bulgarian Academy of Sciences; *Associate Professor of Computer Science (1999)*.
- CHARLES MARLOR, M.L.S., Southern Connecticut State University; *Librarian, Head, Acquisitions Services (2001)*.
- CORA M. MARSHALL, D.A., New York University; *Associate Professor of Art (1998)*.
- VIVIAN B. MARTIN, Ph.D., Union Institute and University; *Associate Professor of English (1999)*.
- KATHY A. MARTIN-TROY, Ph.D., University of Virginia; *Professor of Biomolecular Sciences (1990)*.
- RICHARD MASON, B.S., University of Connecticut; *Assistant Director of Business Services (2003)*.
- JASON MASTROGIOVANNI, B.M., University of Florida; *Assistant to the Director/Residence Hall Director, Residence Life (2003)*.
- C. CHARLES MATE-KOLE, Ph.D., University of Leicester; *Professor of Psychology (1996)*.
- SUNIL KUMAR MATHUR, Ph.D., University of Delhi; *Assistant Professor of Mathematical Sciences (2004)*.
- MARIMI MATSUSHITA, Ed.D., Columbia University; *Assistant Professor of Mathematical Sciences (2007)*.
- MARIAN MATTHEWS, Ph.D., University of Connecticut; *Associate Professor of Teacher Education (2004)*.
- SANDRA MATTHEWS, M.S., Central Connecticut State University; *Assistant Director of Residence Life (2005)*.
- EDWARD J. MAYDOCK, M.B.A., Columbia University; *Assistant Professor of Engineering (1981)*.
- MAUREEN M. MAZZATTO, B.S., Central Connecticut State University; *CSU Administrative Assistant (1992)*.
- MOLLY McCARTHY, M.S., Central Connecticut State University; *Assistant Athletics Director for Compliance, Intercollegiate Athletics (1995)*.
- THOMAS McCARTHY, M.S., Central Connecticut State University; *Athletic Trainer and Instructor of Physical Education and Human Performance (1996)*.
- COURTNEY McDAVID, CSU Administrative Assistants, Office of Provost and Vice President, Academic Affairs (1997).
- JEFFREY McGOWAN, Ph.D., CUNY Graduate Center; *Professor of Mathematical Sciences (1992)*.
- KATE McGRATH, Ph.D., Emory University; *Assistant Professor of History (2007)*.
- JEFFREY J. McINERNEY, M.S., Troy State University; *Head Football Coach, Intercollegiate Athletics (2006)*.
- SCOTT McKENNA, Ph.D., University of Connecticut; *Director of Events Management, Administrative Affairs (1991)*.
- JOSEPH McKEON, Ph.D., Fordham University; *Professor of Philosophy (1984)*.
- MARK W. McLAUGHLIN, Ph.D., University of Chicago; *Associate Vice President for Marketing and Communication, University Relations (2001)*.
- BARBARA S. MEAGHER, M.L.S., Southern Connecticut State University; *Librarian, Head of Reference (1977)*.

- GUSTAVO MEJÍA, Ph.D., University of Essex; *Professor of Modern Languages* (1998).
- SERAFÍN MÉNDEZ-MÉNDEZ, Ph.D., University of Massachusetts; *Professor of Communication* (1990).
- CHARLES MENOCHÉ, D.M.A., University of Texas - Austin; *Associate Professor of Music* (2002).
- MELISSA A. MENTZER, Ph.D., University of Oregon; *Associate Professor of English* (1991).
- BETH MERENSTEIN, Ph.D., University of Connecticut; *Assistant Professor of Sociology* (2004).
- NORTON H. MEZVINSKY, Ph.D., University of Wisconsin; *CSU Professor of History* (1967).
- PAUL MIHALEK, Ph.D., University of Connecticut; *Professor of Accounting* (2007).
- ADELE M. MILLER, Ed.D., University of Massachusetts-Lowell; *Assistant Professor of Mathematical Sciences* (2002).
- DANIEL J. MILLER, Ph.D., University of Texas; *Professor of Management and Organization* (1991).
- DANIEL S. MILLER, Ph.D., University of Connecticut; *Professor of Mathematical Sciences* (1982).
- JOHN W. MILLER, Ph.D., Purdue University; *President* (2005).
- THOMAS MIONE, Ph.D., University of Connecticut; *Professor of Biology* (1992).
- EDUARDO MIRANDA, B.S., Central Connecticut State University; *Contracts Compliance Assistant, Business Services* (2006).
- DAMON MITCHELL, Ph.D., Kent State University; *Assistant Professor of Criminology and Criminal Justice* (2003).
- MARGARET MITCHELL, Ph.D., Pennsylvania State University; *Professor of Management and Organization* (1993).
- MARIA MITCHELL, Ph.D., Capella University; *Assistant Professor of Mathematical Sciences* (2002).
- JOHN R. MITRANO, Ph.D., Boston College; *Professor of Sociology* (1994).
- ANDREW MOEMEKA, Ph.D., State University of New York-Albany; *Professor of Communication* (1987).
- TIFFANY MOFFO, M.S., Central Connecticut State University; *Assistant Director, Student Center* (2004).
- DOUGLAS MONTY, M.A., University of Connecticut; *Server Support Assistant, Information Technology Services* (1999).
- KENNETH F. MOONEY, M.F.A., University of Texas-Austin; *Assistant Professor of Theatre* (2003).
- ÁNGELA MORALES, Ph.D., State University of New York at Stony Brook; *Associate Professor of Modern Languages* (1998).
- ANTONIA C. MORAN, J.D., University of Connecticut Law School; *Associate Professor of Political Science* (1988).
- DANIEL MORAN, M.S., Central Connecticut State University; *Associate Chief Administrative Officer, Facilities Management* (1970).
- PETER MORANO, Ph.D., Michigan State University; *Associate Professor of Physical Education and Human Performance* (2001).
- VICTORIA MORLEY, Ph.D., University of Connecticut; *Associate Professor of Physical Education and Human Performance* (1992).
- CARA M. MULCAHY, Ph.D., University of Connecticut; *Assistant Professor of Reading and Language Arts* (2005).
- DANIEL G. MULCAHY, Ph.D., University of Illinois; *Professor of Teacher Education* (1992).
- RICHARD C. MULLINS, JR., M.S., Central Connecticut State University; *Executive Assistant to the President for Community Business Programs, Institute of Technology and Business Development* (2002).
- JAMES P. MULROONEY, Ph.D., Wesleyan University; *Associate Professor of Biomolecular Sciences* (2002).
- FRANCES NADEAU, M.L.S., Southern Connecticut State University; *Librarian; Head, Curriculum Laboratory* (1990).
- LAURIE A. NAPIERSKI, B.A., Central Connecticut State University; *Voice Systems Analyst, Telecommunications* (1987).
- GLEN NELSON, B.A., Eastern Connecticut State University; *Computer Support Assistant, Information Technology Services* (2007).
- STEVEN B. NEWMAN, Ph.D., State University of New York-Albany; *Professor of Physics and Earth Sciences* (1978).
- BARBARA J. NICHOLSON, Ph.D., University of Alberta, Edmonton; *Professor of Biology* (1995).
- JOAN NICOLL-SENFT, Ph.D., Temple University; *Associate Professor of Special Education* (2002).
- MARY ANNE NUNN, Ph.D., University of Virginia; *Associate Professor of English* (1993).
- BRIAN M. O'CONNELL, J.D., University of Connecticut; *Professor of Computer Science and Philosophy* (1997).
- JOHN O'CONNOR, Ph.D., University of Massachusetts-Amherst; *Assistant Professor of Sociology* (2003).
- OLUSEGUN ODESINA, Ph.D., Iowa State University; *Associate to the Dean, School of Technology, and Professor of Computer Electronics and Graphics Technology* (1988).
- KEVIN OLIVA, M.S., Central Connecticut State University; *Director, Academic Center for Student Athletes* (1991).
- LOUISE OLSZEWSKI, B.A., Charter Oak College; *Assistant in Human Resources 2, Human Resources* (1987).
- ELIZABETH O'NEILL, D.P.E., Springfield College; *Assistant Professor of Physical Education and Human Performance* (2004).
- DAVID ORSCHEL, B.S., Central Connecticut State University; *Director of Technical Services, Information Technology Services* (1999).
- PETER OSEI, Ph.D., University of Tennessee; *Associate Professor of Biology* (1993).
- SHELLEY A. OSTERREICH, M.L.S., Pratt Institute; *Assistant Librarian, Technical Processing* (1980).
- STEVEN D. OSTROWSKI, Ph.D., State University of New York, Albany; *Associate Professor of English* (2000).
- HARRY PACHECO, M.S., Central Connecticut State University; *Associate Director, Pre-Collegiate and Access Services* (1995).
- LORI PADUA, M.S., Central Connecticut State University; *Director of Business Services, Business Office* (1992).
- KI-TAI PAE, Ph.D., University of Connecticut; *Professor of Economics* (1971).
- JOSEPH P. PAIGE, Ed.D., Wilmington College; *Associate Vice President for Academic Affairs* (2007).
- ERNEST L. PANCOSOFAR, Ph.D., Southern Illinois University; *Associate Professor of Special Education* (1999).
- M. LYNN PAPACOSTAS-GINOLFI, M.S., Central Connecticut State University; *New Britain ConnCAP Site-Coordinator, Pre-Collegiate and Access Services* (2005).
- LORI PARADISE, *Assistant in Human Resources 1, Human Resources* (2005).
- MICHAEL A. PARK, Ph.D., Indiana University; *Professor of Anthropology* (1973).
- N. CARLOTTA PARR, D.M.E., Indiana University; *Associate Professor of Music* (1998).
- JOHN PASCO, *CSU Administrative Assistant, Center for Public Policy and Social Research* (2001).
- MARIA C. PASSARO, Ph.D., City University of New York; *Professor of Modern Languages* (1989).
- ANNE E. PAUTZ, Ph.D., Louisiana State University; *Assistant Dean, School of Education and Professional Studies* (2003).
- A. FIONA PEARSON, Ph.D., Georgia State University; *Assistant Professor of Sociology* (2006).
- SUSAN E. PEASE, Ph.D., Florida State University; *Dean, School of Arts and Sciences, and Professor of Criminology and Criminal Justice* (1989).
- JENNIFER PELLETIER, B.S., Central Connecticut State University; *IT Support and Business 2 Business Specialist, Connecticut Small Business Development Center, ITBD* (2007).
- CLAYTON A. PENNIMAN, Ph.D., University of New Hampshire; *Professor of Biology* (1992).
- OSCAR PERDOMO, Ph.D., Indiana University; *Assistant Professor of Mathematical Sciences* (2007).
- LAUREN PERDUE, Ph.D., State University of New York at Stony Brook; *Associate Professor of Psychology* (1992).
- JOSHUA PERLSTEIN, M.F.A., University of Massachusetts-Amherst; *Associate Professor of Theatre* (1992).
- NANCY J. PERREAULT, B.A., Central Connecticut State University; *Assistant Registrar* (1999).
- RAYMOND J. PERREAULT, JR., Ph.D., University of Maryland; *Professor of Manufacturing and Construction Management* (1989).
- PAMELA PERRY, D.M.A., University of Hartford; *Professor of Music* (1990).
- WARREN PERRY, Ph.D., CUNY; *Professor of Anthropology* (1993).
- CARMELA PESCA, Ph.D., University of Connecticut; *Professor of Modern Languages* (1995).
- SHERRY PESINO, M.S., Central Connecticut State University; *Assistant Director, Media Services* (1998).
- LAURENCE PETIT, Ph.D., University of Colorado at Boulder; *Assistant Professor of English* (2004).
- OLGA PETKOVA, DCom, University of Pretoria; *Professor of Management Information Systems* (2001).
- SUSAN PETROSINO, M.B.A., Long Island University; *Registrar* (2001).
- PAUL PETTERSON, Ph.D., University of Massachusetts at Amherst; *Associate Professor of Political Science* (1995).
- NICHOLAS PETTINICO, JR., M.S.Ed., Niagara University; *Associate Vice President, Institutional Advancement* (1982).
- IRENA PEVAC, Ph.D., University of Belgrade; *Associate Professor of Computer Science* (1992).
- JOSE PEZO, B.S., Sacred Heart University; *Construction Coordinator* (2005).
- EVELYN NEWMAN PHILLIPS, Ph.D., University of South Florida; *Professor of Anthropology* (1994).
- JENNIFER PIATEK, Ph.D., University of Pittsburgh; *Assistant Professor of Physics and Earth Sciences* (2007).
- DEREK H. PIERCE, B.S., Central Connecticut State University; *Interim Manager of Internet Services, Marketing and Communications* (2007).
- THOMAS PINCINCE, B.A., Stonehill College; *Assistant Athletics Director/Sports Information* (2002).
- RICHARD PIOTROWSKI, M.S., Central Connecticut State University; *Property Control Assistant* (2006).
- BERYL PIPER, M.S., Southern Connecticut State University; *Head Women's Basketball Coach* (2007).
- KATHERINE PIROG, M.Ed., Trenton State College; *Head Athletic Trainer and Associate Professor of Physical Education and Human Performance* (1985).
- CRAIG POCOCK, B.S., Central Connecticut State University; *Video Engineer Specialist, Media Services* (1998).
- KATHERINE POIRIER, M.A., University of Connecticut; *Interim Associate Director, Student Center* (1993).
- CYNTHIA POPE, Ph.D., University of Arizona; *Associate Professor of Geography* (2001).
- KENNETH J. POPPE, M.S., Central Connecticut State University; *Associate Director, Career Services and Cooperative Education* (1980).
- KAREN PORTERA, A.S., Tunxis Community College; *Assistant in Human Resources 2, Human Resources* (2005).
- JASON B. POWELL, M.P.A., University of Hartford; *Director of Public Safety/Chief of Police* (1991).
- AIMEE POZORSKI, Ph.D., Emory University; *Assistant Professor of English* (2004).
- HEATHER MUNRO PRESCOTT, Ph.D., Cornell University; *Professor of History* (1992).
- BONNIE PRICE, *Assistant in Human Resources 2, Human Resources* (2005).
- WILLIAM PRINGLE, M.S., Rensselaer Polytechnic Institute; *Data Network Specialist, Information Technology Services* (1992).
- NIKITA PROKHOROV, M.F.A., Savannah College of Art and Design; *Assistant Professor of Design (Graphic/Information)* (2007).
- ZBIGNIEW PRUSAK, Ph.D., University of Connecticut; *Professor of Engineering* (1994).
- CHRISTOPHER PUDLINSKI, Ph.D., Temple University; *Associate Professor of Communication* (1998).
- NUSSER RAAJPOOT, Ph.D., University of Sydney; *Associate Professor of Marketing* (2005).
- DIANNA RABER, B.S., Central Connecticut State University; *Assistant to the Director/Residence Hall Director, Residence Life* (2002).
- PRIYA RAI, M.L.S., Pratt Institute; *Librarian; Head of Technical Processing* (1977).
- VEERAMUTHU RAJARAVIVARMA, Ph.D., Tennessee Technological University; *Professor of Computer Electronics and Graphics Technology* (2001).
- ROBERT RAK, B.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services* (2000).
- SHAMIR RATANSI, Ph.D., University of Cincinnati; *Assistant Professor of Criminology and Criminal Justice* (2004).
- AWILDA REASCO, M.S.W., University of Connecticut; *Director, Pre-Collegiate and Access Services* (1987).
- LUIS RECODER-NÚÑEZ, Ph.D., Wesleyan University; *Associate Professor of Mathematical Sciences* (2001).

- PAUL RESETARITS, Ph.D., University of Connecticut; *Professor of Manufacturing and Construction Management (1984)*.
- JANICE M. RESKA, M.B.A., M.P.A., University of Hartford; *Assistant Director of the Advising Center (1982)*.
- JULIE RIBCHINSKY, M.M., Eastman School of Music; *Professor of Music (1978)*.
- ANNE RICH, Ph.D., University of Massachusetts; *Professor of Accounting (2007)*.
- SANFORD E. RICH, M.A., Ball State University; *Professor of Computer Electronics and Graphics Technology (1959)*.
- TIMOTHY J. RICKARD, Ph.D., University of Kansas; *Professor of Geography (1971)*.
- KAREN J. RIEM, Ph.D., University of Connecticut; *Associate Professor of Teacher Education (1994)*.
- ANTHONY RIGAZIO-DiGILIO, Ed.D., University of Massachusetts; *Professor of Educational Leadership (1990)*.
- KAREN A. RITZENHOFF, Ph.D., University of Minnesota; *Associate Professor of Communication (1994)*.
- NORMA RIVERA, A.S., Naugatuck Valley Community College; *Assistant in Human Resources 2, Human Resources (2005)*.
- TINA-MARIE RIVERA-ROWE, M.S., Central Connecticut State University; *Software Support and Training Specialist, Information Technology Services (2002)*.
- AMANDA ROCZNAK, M.S., Southern Connecticut State University; *Head Softball Coach (2000)*.
- RUTH E. ROLLIN, Ph.D., Colorado State University; *Professor of Biology (1986)*.
- THOMAS A. ROMAN, Ph.D., Syracuse University; *Professor of Mathematical Sciences (1985)*.
- PATRICIA ROOT, J.D., University of Connecticut; *Associate Professor of Finance (1994)*.
- JUDITH H. ROSENBERG, Ph.D., University of Connecticut; *Professor of Counseling and Family Therapy (1981)*.
- MYRA ROSENSTEIN, M.D., State University of New York-Buffalo; *Medical Director of University Health Service (1987)*.
- RICHARD L. ROTH, Ph.D., Rutgers University; *Associate Dean, School of Arts and Sciences, and Associate Professor of Biology (2001)*.
- MARIA LOURDES ROXAS, Ph.D., University of Georgia; *Professor of Accounting (1993)*.
- HENRY RUDZINSKI, JR., M.S., Central Connecticut State University; *Computer Facilities Manager, School of Technology (1990)*.
- LYNDSAY RUFFOLO, B.A., Central Connecticut State University; *Program Administrator, Institute for the Study of Crime and Justice (2007)*.
- SHIANN RUTLEDGE, *Assistant to the Bursar, Perkins Loan Office (1995)*.
- EDWARD RYBCZYK, Ed.D., University of Bridgeport; *Managing Director, U.S./China Business Center (1990)*.
- NANJUNDIAH SADANAND, Ph.D., University of Connecticut; *Professor of Physics and Earth Sciences (1984)*.
- LINDA SAGNELLI, B.S., Long Island University; *Volleyball Head Coach, Intercollegiate Athletics (2000)*.
- KRISHNA K. SAHA, Ph.D., University of Windsor; *Assistant Professor of Mathematical Sciences (2005)*.
- MITCHELL SAKOFS, Ph.D., University of Colorado; *Dean, School of Education and Professional Studies (2003)*.
- MOISÉS F. SALINAS, Ph.D., University of Texas at Austin; *Associate Professor of Psychology (1999)*.
- EDWARD SARISLEY, JR., Ph.D., P.E., University of Connecticut; *Professor of Manufacturing and Construction Management (1982)*.
- MANDI SCALA, B.S., Southern Connecticut State University; *Program Assistant/Recreation, Student Activities/Leadership Development (2003)*.
- FRANK W. SCARLETT, *Facilities Management Contract Administrator, Physical Plant (1983)*.
- DWIGHT SCHERBAN, Ph.D., University of Connecticut; *Professor of Marketing (1977)*.
- RAE SCHIPKE, Ph.D., University of Pennsylvania; *Professor of English (1993)*.
- PEGGY SCHUBERTH, M.S., Central Connecticut State University; *Director of Continuing Education and the Enrollment Center (1978)*.
- MARY ANN SCHUETZ, *Procurement Administrator, ITBD (1997)*.
- TAMI L. SCHULTZ, Ph.D., University of Toledo; *Assistant Professor of Educational Leadership (2004)*.
- J. THOMAS SEDDON IV, D.M.A., University of Hartford, The Hartt School; *Assistant Professor of Music (2004)*.
- SUSAN N. SEIDER, Ed.D., Pennsylvania State University; *Professor of Teacher Education (1989)*.
- JOAN NICOLL-SENFT, Ph.D., Temple University; *Associate Professor of Special Education (2002)*.
- LINDA SERSHEN, B.A.F.A., University of Bridgeport; *Assistant to the Director, Career Services and Cooperative Education (1995)*.
- BENJAMIN SEVITCH, Ph.D., Indiana University; *Professor of Communication (1975)*.
- HARLAN SHAKUN, C.P.A., M.S., University of Hartford; *Assistant Professor of Accounting (1981)*.
- RAVI SHANKAR, M.F.A., Columbia University; *Associate Professor of English (2003)*.
- NIMMI C. PARIKH SHARMA, Ph.D., Cornell University; *Professor of Physics and Earth Sciences (1999)*.
- XIAOPING SHEN, Ph.D., University of Ottawa; *Professor of Geography (1995)*.
- SIAMACK SHOJAI, Ph.D., Fordham University; *Dean, School of Business (2007)*.
- DAVID SIANEZ, Ph.D., Virginia Polytechnic Institute and State University; *Assistant Professor of Technology and Engineering Education (K-12) (2003)*.
- JASON F. SIKORSKI, Ph.D., Auburn University; *Assistant Professor of Psychology (2007)*.
- ROBERT P. SILVER, B.A., Central Connecticut State University; *Technical Support Specialist, Information Technology Services (1999)*.
- CHRISTOPHER J. SIMCIK, B.S., University of Connecticut; *Manager of Administrative Technology Services, Information Technology Services (1995)*.
- REGINALD SIMMONS, Ph.D., University of South Carolina; *Assistant Professor of Criminology and Criminal Justice (2007)*.
- DONNA SIMS, J.D., South Texas College of Law; *Assistant Professor of Finance (2004)*.
- RACHEL SIPORIN, M.F.A., Yale University; *Professor of Art (1984)*.
- SUSAN SITON, A.S., Mattatuck Community College; *Business Development Coordinator, Connecticut Small Business Development Center, ITBD (1998)*.
- SUSAN SLAGA, M.S.L.I.S., Simmons College; *Assistant Librarian, Reference (2004)*.
- ALAN G. SMITH, Ph.D., Yale University; *Professor of Political Science (1981)*.
- C. DAVID SMITH, Ph.D., University of Connecticut; *Associate Professor of Mathematical Sciences (1967)*.
- SUSAN H. SMITH, M.A., University of Connecticut; *Instructor in Physical Education and Human Performance (1979)*.
- JASON SNYDER, Ph.D., University of Connecticut; *Assistant Professor of Management Information Systems (2007)*.
- OLUSEGUN AGBOOLA SOGUNRO, Ph.D., University of Alberta; *Associate Professor of Educational Leadership (1998)*.
- JEANNE SOHN, M.S., Drexel University; *Director of Library Services (1989)*.
- BRIAN JEFFREY SOMMERS, Ph.D., University of Arizona; *Professor of Geography (1994)*.
- SUMMER SPADERNA, M.S., Central Connecticut State University; *Assistant Director, U.S./China Business Center (1998)*.
- DAVID A. SPECTOR, Ph.D., University of Massachusetts-Amherst; *Professor of Biology (1994)*.
- BARRY M. SPONDER, Ed.D., Utah State University; *Professor of Educational Leadership (1997)*.
- JOHN STEPHENSON, B.A., Central Connecticut State University; *ConnCAP Site Coordinator, Pre-Collegiate and Access Services (1995)*.
- NATALIE STIMPSON-BYERS, M.A., Montclair State University; *Coordinator of Student Disability Services, The Learning Center (1985)*.
- JANE Y. STONEBACK, Ph.D., University of Kansas; *Professor of Accounting (1992)*.
- SARAH STOOKEY, Ph.D., University of Massachusetts; *Assistant Professor of Management and Organization (2006)*.
- MARK R. STRATHY, M.F.A., Brooklyn College; *Professor of Art (1991)*.
- REBECCA STRAUB, B.A., B.S., Eastern Connecticut State University; *Assistant to the Director/Area Coordinator, Residence Life (2006)*.
- AMY STRICKLAND, B.S., Central Connecticut State University; *Associate Athletic Director of Compliance, Intercollegiate Athletics (2004)*.
- JASON STRONZ, M.B.A., Lake Erie College; *Sports Information Assistant, Intercollegiate Athletics (2006)*.
- STANLEY STYRCZULA, M.S., Central Connecticut State University; *Database Manager, Information Technology Services (1999)*.
- KATHERINE SUGG, Ph.D., University of Illinois at Urbana-Champaign; *Assistant Professor of English (2004)*.
- GLENN SUNSHINE, Ph.D., University of Wisconsin-Madison; *Professor of History (1994)*.
- ANNA SUSKI-LENCZEWSKI, B.S., Central Connecticut State University; *University Human Resources Administrator, Human Resources (2004)*.
- SUSAN SWEENEY, B.S., University of Rhode Island; *Associate Director of Student Activities/Leadership Development (1985)*.
- PIOTR SZUL, B.S., B.A., Central Connecticut State University; *PC Maintenance Technician, Information Technology Services (2006)*.
- RAYMOND CHIP TAFRATE, Ph.D., Hofstra University; *Professor of Criminology and Criminal Justice (1997)*.
- CONNIE M. TAIT, Ph.D., Syracuse University; *Associate Professor of Counseling and Family Therapy (2002)*.
- JEFFREY B. TEITLER, M.F.A., Yale University; *Assistant Professor of Communication (2006)*.
- AMANDA TELLIER, B.A., University of Connecticut; *Assistant to the Director, Continuing Education/Enrollment Center (2006)*.
- MICHAEL TEREZAKIS, Ed.D., Boston University; *Assistant Professor and Counselor, Counseling and Wellness Center, and Clinical Professor of Health and Human Service Professions (1970)*.
- RAVINDRA THAMMA, Ph.D., Iowa State University; *Assistant Professor of Manufacturing and Construction Management (2006)*.
- LINDA BACKIEL THOMPSON, M.S., Central Connecticut State University; *Degree Auditor (1993)*.
- ELEANOR THORNTON, M.F.A., Vermont College of Norwich University; *Assistant Professor of Design (Graphic/Information) (1998)*.
- PATRICIA TILLEY, Ph.D., Florida State University; *Associate Professor of Accounting (2005)*.
- RONALD J. TODD, M.F.A., The School of the Art Institute of Chicago; *Professor of Art (1987)*.
- NICHOLAS TOMAIUOLO, M.L.S., Southern Connecticut State University; *Librarian, Bibliographic Instruction (1994)*.
- MARISA TOMALÁ-MEALY, Ph.D., New Mexico State University; *Assistant Professor of Psychology (2006)*.
- STEPHEN TOMCZYK, D.B.A., University of Kentucky; *Associate Professor of Accounting (2003)*.
- SHIZUKO TOMODA, Ph.D., University of Arizona; *Professor of Modern Languages (1989)*.
- LUISITO TONGSON, Ph.D., University of Delaware; *Professor of Physics and Earth Sciences (1990)*.
- MARGARET Y. TOSTON, Ph.D., University of Mississippi; *Vice President for Student Affairs (2004)*.
- KIMBERLY TOWER, D.P.E., Springfield College; *Assistant Professor of Physical Education and Human Performance (2003)*.
- KAREN C. TRACEY, Ed.D., University of Massachusetts; *Professor of Computer Electronics and Graphics Technology (1989)*.
- WILLIAM E. TRACEY, JR., Ed.D., University of Massachusetts; *Associate Professor of Management and Organization (1989)*.
- RACHEL TRINGALI, B.S., Monmouth University; *Head Women's Lacrosse Coach, Intercollegiate Athletics (2006)*.
- DAVID TRULY, Ph.D., University of South Carolina; *Associate Professor of Geography (1999)*.
- JOHN TULLY, Ph.D., Ohio State University; *Assistant Professor of History (2004)*.
- JESSE P. TURNER, Ph.D., University of Arizona; *Associate Professor of Reading and Language Arts (1999)*.
- C. BENJAMIN TYSON, Ph.D., University of Connecticut; *Professor of Communication (1995)*.

LILLIÁN URIBE, Ph.D., State University of New York at Stony Brook; *Professor of Modern Languages (1990)*.
 ALDRIGE A. VAILLANT, Ed.D., University of Maryland; *Professor of Educational Leadership (1969)*.
 LYNDA VALERIE, Ph.D., University of Connecticut; *Assistant Professor of Reading and Language Arts (2005)*.
 RICHARD VALERIO, B.F.A., Central Connecticut State University; *Assistant Director of Event Management (2000)*.
 CHAD E. VALK, M.S., Central Connecticut State University; *Assistant Director, Video Production, Media Services (2000)*.
 AIMEE VAN WAGENEN, Ph.D., Boston College; *Assistant Professor of Sociology (2007)*.
 BRIAN VANDEROEF, B.S., Central Connecticut State University; *Assistant Director of Accounting (2003)*.
 JANICE VANRIPER, Ph.D., University of Utah, and J.D., University of Montana School of Law; *Assistant Professor of Philosophy (2005)*.
 SUSAN VIAL, M.F.A., Pratt Institute; *Professor of Design (Graphic/Information) (1980)*.
 JOSEPH VIGDORCHIK, B.A., University of Minsk (Belorussia); *Equipment Manager, Intercollegiate Athletics (1993)*.
 STEPHEN VILLANTI, M.S., Central Connecticut State University; *Assistant Athletic Director/Event Coordinator, Intercollegiate Athletics (1993)*.
 MICHAEL C. VINCENTI, Ph.D., University of Connecticut; *Associate Professor of Technology and Engineering Education (K-12) (1993)*.
 MICHAEL VOIGHT, Ph.D., University of Southern California; *Assistant Professor of Physical Education and Human Performance (2007)*.
 BRADLEY M. WAITE, Ph.D., Kent State University; *Professor of Psychology (1988)*.
 CHARLES WAIVERIS, Ph.D., Wesleyan University; *Professor of Mathematical Sciences (1990)*.
 CYNTHIA WALKER, B.A., Western Connecticut State University; *Conference Center Manager, ITBD (1995)*.
 JUDITH WALO, Ph.D., Michigan State University; *Professor of Accounting (1994)*.
 SEAN WALSH, Ph.D., University of Maryland; *Assistant Professor of Physical Education and Human Performance (2006)*.
 SHOU SAN WANG, Ph.D., University of Connecticut; *Associate Director of Media Services (1986)*.
 WUJUN WANG, M.F.A., Iowa State University; *Assistant Professor of Design (Graphic/Information) (2006)*.
 CHRISTIE WARD, M.A., University of Missouri-Columbia; M.A., Fairfield University; *Associate Director and Coordinator of IELP, George R. Muirhead Center for International Education (1999)*.
 MATTHEW S. WARSHAUER, Ph.D., St. Louis University; *Professor of History (1997)*.
 LISA WASHKO, M.S.O.M., Central Connecticut State University; *Information Center Manager, Information Technology Services (1985)*.
 CHERYL L. WATSON, Ph.D., University of Hawaii; *Professor of Biomolecular Sciences (1997)*.
 SHELDON T. WATSON, Ph.D., University of Missouri-Columbia; *Assistant Professor of Educational Leadership (2005)*.
 STEPHEN P. WATTON, Ph.D., Northwestern University; *Assistant Professor of Chemistry and Biochemistry (1991)*.
 BRENDA WEBB, B.S., University of Tennessee; *Head Women's Cross Country and Track Coach, Intercollegiate Athletics (2006)*.
 KENNETH J. WEISS, Ph.D., Rutgers University; *Associate Professor of Reading and Language Arts (2005)*.
 BARRY L. WESTCOTT, Ph.D., University of Arizona; *Professor of Chemistry and Biochemistry (1997)*.
 CINDY WHITE, Ph.D., University of Massachusetts; *Professor of Communication (1992)*.
 DANIEL J. WIENER, Ph.D., University of Texas at Austin; *Professor of Counseling and Family Therapy (1995)*.
 LARRY L. WILDER, J.D., University of Connecticut School of Law; *Chief Financial Officer (2004)*.
 CAROL G. WILLIAMS, D.N.Sc., R.N., Boston University; *Associate Professor of Nursing (2001)*.
 DENNIS WILLIAMS, M.S., Ball State University; *Associate Director of Financial Aid (2003)*.
 LOUISE B. WILLIAMS, Ph.D., Columbia University; *Associate Professor of History (1997)*.

KEMESHA WILMOT, B.S., Eastern Connecticut State University; *Assistant to the Director/Residence Hall Director, Residence Life (2005)*.
 MICHAEL WIZEVICH, Ph.D., Virginia Polytechnic Institute and State University; *Assistant Professor of Physics and Earth Sciences (2006)*.
 ROBERT S. WOLFF, Ph.D., University of Minnesota; *Associate Professor of History (1997)*.
 MICHAEL WOLTER, B.S., Eastern Connecticut State University; *Assistant to the Director/Residence Hall Director, Residence Life (2005)*.
 EWA WOLYNSKA, M.L.S., Simmons College; *Librarian and Archivist for Special Collections (1989)*.
 BRIAN WOOD, B.S., Central Connecticut State University; *Associate Director of Accounting, Accounting (1985)*.
 REBECCA M. WOOD, Ph.D., University of Connecticut; *Assistant Professor of Psychology (2004)*.
 ELIZABETH WRIGHT, M.S., Central Connecticut State University; *Assistant Registrar (2004)*.
 DEBORAH ZANELLA, Ed.D., Nova Southeastern University; *Associate Professor of Computer Electronics and Graphics Technology (1992)*.
 PATRICIA ZAPATKA, RN.C., American Nurses Certification, New Britain General Hospital School of Nursing; *Associate Director, University Health Service (1989)*.
 JOSEPH A. ZEOLI, M.B.A., University of New Haven; *Assistant Director, Career Services and Cooperative Education (1988)*.
 LEYLA ZIDANI-EROGLU, Ph.D., University of Wisconsin-Madison; *Associate Professor of English (1997)*.
 NELI ZLATAREVA, Ph.D., Higher Institute of Mechanical and Electrical Engineering (Bulgaria); *Professor of Computer Science (1992)*.
 ALISON R. ZWICK, B.A., Bennington College; *Help Desk Coordinator, Information Technology Services (2005)*.

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- WILLIAM ELLIS, C.P.A., J.D., *Associate Professor of Accounting, Emeritus*
- HENRY S. ENCK, Ph.D., *Executive Assistant to the President for International Development, Emeritus*
- MARY L. ERTEL, M.A., *Professor of Sociology, Emerita*
- LINDA JANE EVANS, Ph.D., J.D., *Professor of Sociology and Social Work, Emerita*
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- WILLIAM J. FERGUSON, D.P.S., *Associate Professor of Management and Organization, Emeritus*
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- CARL FIORE, Ph.D., *Professor of Biological Sciences, Emeritus*
- F. WILLIAM FISCHER, Ph.D., *Professor of Special Education, Emeritus*
- THOMAS B. FLAHERTY, Ph.D., *Executive Officer for Planning and Analysis, Emeritus*
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- JAMES E. FOX, M.S., *Registrar, Emeritus*
- ROBERT G. FRACASSO, J.D., *Associate Professor of Finance, Emeritus*
- MARTIN FRANCIS, *Assistant Professor of Physics and Earth Sciences, Emeritus*
- WEI-NING FU, Ph.D., *Professor of Biological Sciences, Emeritus*
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- BRENDAN GALVIN, Ph.D., *Professor of English, Emeritus*
- JOYCE C. GARNER, M.Ed., *Assistant Professor of Athletics, Emerita*
- DAVID GERSTEIN, M. Phil., *Associate Professor of English, Emeritus*
- CHARLES J. GERVASE, Ph.D., *Dean, School of Education and Professional Studies, Emeritus*
- GEORGE GEYER, M.S., *Associate Professor of Physics and Earth Sciences, Emeritus*
- ORLANDO GOMEZ-GIL, Doctor en Derecho, *Professor of Modern Languages, Emeritus*
- RALPH GOODELL, Ph.D., *Professor of English, Emeritus*
- MADLINE GOODSTEIN, Ed.D., *Professor of Chemistry, Emerita*
- LEON J. GORSKI, Ph.D., *Professor of Biological Sciences, Emeritus*
- PAULINE T. GOSSELIN, M.A., *Assistant Professor of Physical Education and Health Fitness Studies, Emerita*
- RICHARD H. GROTH, Ph.D., *Professor of Chemistry, Emeritus*
- RICHARD GROVES, Ed.D., *Professor of Physical Education and Health Fitness Studies, Emeritus*
- DORIS HONIG GUENTER, M.A., *Director of the Women's Center, Emerita*
- DAVID D. HALL, M.A., *Associate Professor of Reading and Language Arts, Emeritus*
- GLORIA HAMPL, M.S., *Assistant Professor of Psychology, Emerita*
- KAREN HANSEN, M.A., *Associate Dean of Student Affairs, Emerita*
- BARBARA M. HART, M.A., *Assistant Registrar, Emerita*
- ERIC H. HARTLEB, M.S., *Associate Registrar, Emeritus*
- BARBARA HAVILAND, M.S., *Assistant Professor of Technology and Vocational-Technical Education, Emerita*
- JUNE B. HIGGINS, Ph.D., *Dean, School of Arts and Sciences, Emerita*
- ALLAN M. HIRSH, M.A., *Associate Professor of English, Emeritus*
- EDITH M. HOFFMAN, Ph.D., *Professor of Art, Emerita*
- WILLIAM S. HOMMON, Ph.D., *Professor of History, Emeritus*
- IRVING HOTT, Ed.D., *Professor of Counselor Education and Human Services, Emeritus*
- MARILYN HOTT, M.A., *Associate Professor of Teacher Education, Emerita*
- MANLIO J. JANNACE, M.Ed., *Associate Professor of Marketing, Emeritus*
- CURTIS E. JENNINGS, M.A., *Assistant Professor of History, Emeritus*
- LOFTUS JESTIN, Ph.D., *Professor of English, Emeritus*
- ANNA E. JOHNSON, Ed.D., *Professor of Business Education, Emerita*
- H. THEODORE JOHNSON, M.B.A., *Associate Professor of Finance, Emeritus*
- WILLIAM C. JONES, JR., Ph.D., *Professor of Computer Science, Emeritus*
- JAMES F. JOST, M.S., *Vice President of Student Affairs, Emeritus*
- EDDIE JOYCE, M.S., *Associate Professor of Teacher Education, Emeritus*
- CORRINE KAISER, M.S., *Assistant Professor of Education, Emerita*
- MARIE A. KASCUS, M.S.L.S., *Librarian, Head, Serials, Emerita*
- FRANCIS E. KEEFE, Ph.D., *Director of Advising Center, Emeritus*
- GENEVA KEHR, Ed.D., *Professor of Physical Education, Emerita*
- JOHN J. KELEHER, M.A., *Associate Professor of Interscholastic Athletics and Head Men's Cross Country and Track Coach, Emeritus*
- WALTER A. KENDRA, M.A., *Associate Professor of Art, Emeritus*
- RICHARD M. KENNEDY, M.A., *Associate Professor of Mathematical Sciences, Emeritus*
- CHARLES W. KERR, Ph.D., *Professor of Political Science, Emeritus*
- PILAR R. KERSON, Ph.D., *Professor of Modern Languages, Emerita*
- W. PAUL KILEY, M.A., *Assistant Professor of Philosophy, Emeritus*
- SARAH S. KING, Ph.D., *Professor of Communication, Emerita*
- DEAN KLEINERT, B.A., *Director of Sponsored Programs, Emeritus*
- IRVING KOPF, M.Phil., *Associate Professor of Geography, Emeritus*
- CHARLOTTE KOSKOFF, Ph.D., J.D., *Associate Professor of Teacher Education, Emerita*
- ADRIENNE W. KOZLOWSKI, Ph.D., *Professor of Chemistry, Emerita*
- CARL F. KREIN, M.A., *Professor of Athletics, Emeritus*
- YVONNE LABRECQUE, M.A., *Assistant Professor of Modern Language, Emerita*
- ROBERT LANG, M.S., *Professor of Engineering Technology, Emeritus*
- SEARLE LANSING-JONES, M.A., *Associate Professor of Art, Emeritus*
- HARRY J. LAPINE, Ph.D., *Professor of Psychology, Emeritus*
- JOHN C. LARKIN, Ed.D., *Professor of Technology Education, Emeritus*
- RUTH LARSON, M.A., *Associate Professor of Business Education, Emerita*
- VALLE P. LATTANZIO, M.A., *Associate Professor of Teacher Education, Emeritus*
- MARIE JEAN LAURENT, Ph.D., *Professor of Reading and Language Arts, Emerita*
- RUTH LEACOCK, Ph.D., *Associate Professor of History, Emerita*
- THOMAS W. LEE, Ph.D., *Professor of Biological Sciences, Emeritus*
- BARRY H. LEEDS, Ph.D., *CSU Professor of English, Emeritus*
- ERNEST LEHMAN, Ph.D., *Professor of Political Science, Emeritus*
- A. ZOE LEIBOWITZ, M.S., *Associate Professor of Computer Science, Emerita*
- THEODORE LENN, Ph.D., *Professor of Sociology, Emeritus*
- ALFRED J. L'ESPERANCE, M.S., *Assistant Professor of Technology and Vocational-Technical Education, Emeritus*
- STEPHEN H. LEWIS, M.S., *Associate Professor of Mathematical Sciences, Emeritus*
- DAVID L. LIEBERMAN, Ph.D., *Professor of Education, Emeritus*
- ALBERT LINDIA, Ph.D., *Professor of Education, Emeritus*
- CAROL LIPPIA-TENNEY, Ph.D., *Counselor, Emerita*
- DAVID E. LOSS, C.P.A., M.B.A., *Professor of Accounting, Emeritus*
- FRED M. LOUGEE, M.S., *Associate Professor of Modern Languages, Emeritus*
- WILLIAM R. LOWRY, Ph.D., *Professor of Marketing, Emeritus*
- JACK A. LUCAS, Ph.D., *Professor of Anthropology, Emeritus*
- LOWELL D. LUKAS, M.Ed., *Associate Director of Athletics, Emeritus*
- DENISE E. LYNCH, Ph.D., *Professor of English, Emerita*
- EDWARD T. LYNCH, JR., J.D., *Associate Professor of Finance and Law, Emeritus*
- ELIZABETH A. LYNCH, M.S., *Assistant Professor of Teacher Education, Emerita*
- KEVIN M. LYNCH, Ph.D., *Professor of English, Emeritus*
- JOSEPH J. MACK, M.S., *Associate Professor of Industrial Technology, Emeritus*
- SANDRA MACNAIR, M.S., *Associate Professor of Physical Education and Health Fitness Studies, Emerita*
- JAMES C. MALLEY, Ph.D., *Associate Professor of Counseling and Family Therapy, Emeritus*
- JAMES MALONE, M.S., *Associate Dean of Financial Services, Emeritus*
- JOHN MANTZARIS, Ph.D., *Professor of Chemistry, Emeritus*
- RICHARD D. MARZI, M.S., *Associate Professor of Mathematical Sciences, Emeritus*
- PHILIP MASLEY, Ph.D., *Professor of Vocational-Technical Education, Emeritus*
- ROBERT E. MASSMANN, M.A.L.S., *Director of Library Services, Emeritus*
- JUDITH E. McBRIDE, Ph.D., *Associate Professor of Philosophy, Emerita*
- DONALD McDONOUGH, M.A., *Associate Professor of English, Emeritus*
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- ORMAN WILSON, M.S., *Assistant Professor of Physics, Emeritus*
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- RICHARD P. WURST, M.S., *Associate Professor of Biological Sciences, Emeritus*
- SYMOND YAVENER, D.M.L., *Professor of Modern Languages, Emeritus*
- ROGER ZIEGER, Ph.D., *Associate Dean, School of Education and Professional Studies, Emeritus*
- ARMAND J. ZOTTOLA, Ph.D., *Professor of Economics, Emeritus*

HONORARY DEGREE RECIPIENTS

Doctor of Commercial Science

Michael S. Knapp '75, President and CEO, CitiFinancialMay 25, 2002

Doctor of Criminal Justice

Paul J. McQuillan, Attorney, Januszewski, McQuillan & DeNigrisFebruary 23, 2004

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 LearningOctober 5, 1987

Gerald R. Ford, President of the United StatesMarch 23, 1988

Mary Hatwood 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

Shigenori Adachihara, Mayor of Atsugi City, Atsugi, JapanMay 23, 1990

Angelo Tomasso, Jr., Chairman and Chief Executive Officer of Tilcon, Inc.May 25, 1990

Jeanne J. Kirkpatrick, United States Representative to the United NationsApril 4, 1991

Simon A. Clarke, Education Advisor to United Nations
Educational, Scientific and Cultural OrganizationMay 24, 1991

Franz J. Rothenbiller, Lord Mayor of Rastatt, GermanyJune 6, 1991

Young Seek Choue, Chancellor of Kyung Hee UniversityOctober 22, 1991

Francis T. Vincent, Jr., Commissioner of Major League BaseballApril 28, 1992

Helmut Schmidt, Chancellor of the Federal Republic of GermanyApril 28, 1993

Eric Jensen, Deputy to the Under-Secretary-General and
Special Representative for Public Affairs of the United NationsMay 27, 1993

Lech Walesa, President of PolandApril 10, 1996

Bruno Ficili, Commissioner of Education, Siracusa, ItalyOctober 23, 1996

Chungwon Choue, President, Kyung Hee UniversityMay 23, 1998

Rt. Rev. Monsignor John Paul Wodarski, Pastor Emeritus, Holy Cross ChurchApril 29, 1999

Irma Margarita Nevaes de Rosselló, First Lady of Puerto RicoMay 20, 1999

The Rt. Rev. Justice O. Akrofi '71, M.S. '74, Bishop of Accra, GhanaMay 18, 2000

Captain Lemuel Rodney Custis, 1st Lieutenant Edward T. Hall,
Flight Officer Connie Nappier, Jr., Lieutenant Colonel Bertram W. Wilson,
Connecticut Tuskegee AirmenMay 26, 2001

F. Don James, President Emeritus, Central Connecticut State UniversityOctober 16, 2003

Noam Chomsky, Professor of Linguistics, Massachusetts Institute of TechnologyNovember 4, 2003

Joseph J. Grano, Jr., Chairman and CEO, Centurion Holdings, LLCMay 19, 2007

Doctor of Laws

Jozsef Antall, Jr., Prime Minister of the Republic of Hungary	September 30, 1991
J. William Burns, Commissioner, Connecticut State Department of Transportation	January 3, 1995
George H. W. Bush, President of the United States	March 11, 1999
George J. Mitchell, U.S. Senator and Senate Majority Leader.....	April 12, 2000
George W. Bush, President of the United States.....	April 18, 2001
Peter G. Kelly, Senior Principal, Updike, Kelly & Spellacy.....	February 25, 2003

Doctor of Pedagogy

Cecile A. Walden, Principal, Sam Sharpe Teachers' College	May 27, 2004
---	--------------

Doctor of Public Service

Fran P. Mainella, M.S. '75, Director, National Park Service.....	May 23, 2002
Rabbi Henry Okolica, CCSU Campus Clergy	May 22, 2003

Doctor of Science

Antonia Coello Novello, Surgeon General of the United States	May 28, 1993
Andrzej Wiszniewski, Rector, Technical University of Wroclaw.....	May 28, 1993
Alexander M. Butman, Executive Director, Emergency Training Institute	April 28, 1994
E. Dorrit Hoffleit, Senior Research Astronomer Emerita, Yale University.....	October 20, 1998
Phyllis Macpherson-Russell, Minister of Education, Jamaica	December 4, 1999
Professor Dr. Rainer Dieterich, Universität der Bundeswehr, Hamburg.....	May 25, 2002

Doctor of Social Science

Harry Jack Gray, Chairman and Chief Executive Officer, United Technologies Corporation.....	May 17, 1985
Henry A. Kissinger, Secretary of State of the United States.....	March 24, 1987
Brian Mulroney, Prime Minister of Canada	April 26, 1994
Vincent O'Leary, President, State University of New York at Albany	May 28, 1994

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UNIVERSITY CALENDAR 2007–2008

FALL SEMESTER 2007

August 27	Academic year begins
September 3	Labor Day Holiday—No classes
September 4	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund
Sept. 4–11	Add/Drop Period
September 11	Last day to change from part-time to full-time status; last day for part-time students to drop with 100% refund
Sept. 12–25	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
September 17	Final day for graduate students to apply for December 2007 graduation (Graduate Studies)
September 18	Last day for full-time students to withdraw with 60% refund; last day to drop first eight-week courses
Sept. 19– Oct. 2	Withdrawal from first eight-week courses without approval. "W" will be entered.
September 24	Last day to change from full- to part-time status
September 25	Last day to declare Pass/Fail or Audit options; last day for part-time students to drop with 50% refund
Sept. 26– Oct. 30	Withdrawal from full-semester courses without approval. "W" will be entered.
October 1	Last day for graduate students to apply for comprehensive exams for Dec. 2007 graduation (Graduate Studies)
October 2	Midterm for first eight-week courses; last day for full-time students to withdraw with 40% refund; last day to withdraw from first eight-week courses without approval. "W" will be entered.
October 30	Midterm; last day to withdraw from full-semester courses without approval. "W" will be entered. First eight-week courses end
October 31	Second eight-week courses begin
November 14	Last day to drop second eight-week courses
November 15	Final submission of thesis and dissertation to Graduate Studies for inclusion in Dec. 07 commencement booklet
November 21	Last day for full-time students to withdraw from the University
Nov. 21–25	Thanksgiving Recess—No classes
November 26	Classes resume 8 a.m.
November 28	Midterm for second eight-week courses; last day to withdraw from second eight-week courses without approval. "W" will be entered.
December 3	Final day for undergraduates to apply for December 2008 graduation (Registrar's Office)
December 13	Day classes end
December 14	Reading Day (No day or evening classes)
Dec. 15–21	Final Exams
December 15	Winter Commencement
December 22	Semester ends

WINTER SESSION 2008

January 1	New Year's Day—No classes
January 2	Winter Session classes begin
January 18	Winter Session classes end

SPRING SEMESTER 2008

January 14	Academic semester begins
January 21	Martin Luther King Holiday—No classes
January 22	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund
January 22–29	Add/Drop Period
January 29	Last day to change from part- to full-time status; last day for part-time students to drop with 100% refund
Jan. 30–Feb. 12	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
February 5	Last day for full-time students to withdraw with 60% refund; last day to drop first eight-week courses
February 11	Last day to change from full- to part-time status
February 12	Last day to declare Pass/Fail and Audit options; last day for part-time students to drop with 50% refund
Feb. 13–Mar. 25	Withdrawal from full-semester courses without approval. "W" will be entered.
February 15	Last day for graduate students to apply for comprehensive exams for May 08 graduation
February 15–18	Presidents' Holiday Break—No classes
February 19	Last day for full-time students to withdraw with 40% refund; midterm for first eight-week courses; last day to withdraw from first eight-week courses without approval. "W" will be entered.
March 3	Final day for graduate students to apply for May 2008 graduation (Graduate Studies)
March 17–22	Spring Recess—No classes
March 24	Classes resume 8 a.m.
March 25	Midterm; last day to withdraw from full-semester courses without approval. "W" will be entered. First eight-week courses end
March 26	Second eight-week courses begin
April 1	Final day for graduate students to apply for Summer Session 2008 graduation (Graduate Studies)
April 9	Last day to drop second eight-week courses
April 15	Final submission of thesis and dissertation to Graduate Studies for inclusion in May 08 commencement booklet
April 21	Last day for full-time students to withdraw from the University
April 23	Midterm for second eight-week courses; last day to withdraw from second eight-week courses without approval. "W" will be entered.
April 28	Final day for undergraduates to apply for May 2009 graduation (Registrar's Office)
May 7	Day classes end
May 8–9	Reading Days (No day or evening classes)
May 12–17	Final exams
May 17	Semester ends
May 17	Spring Commencement

SUMMER SESSION 2008

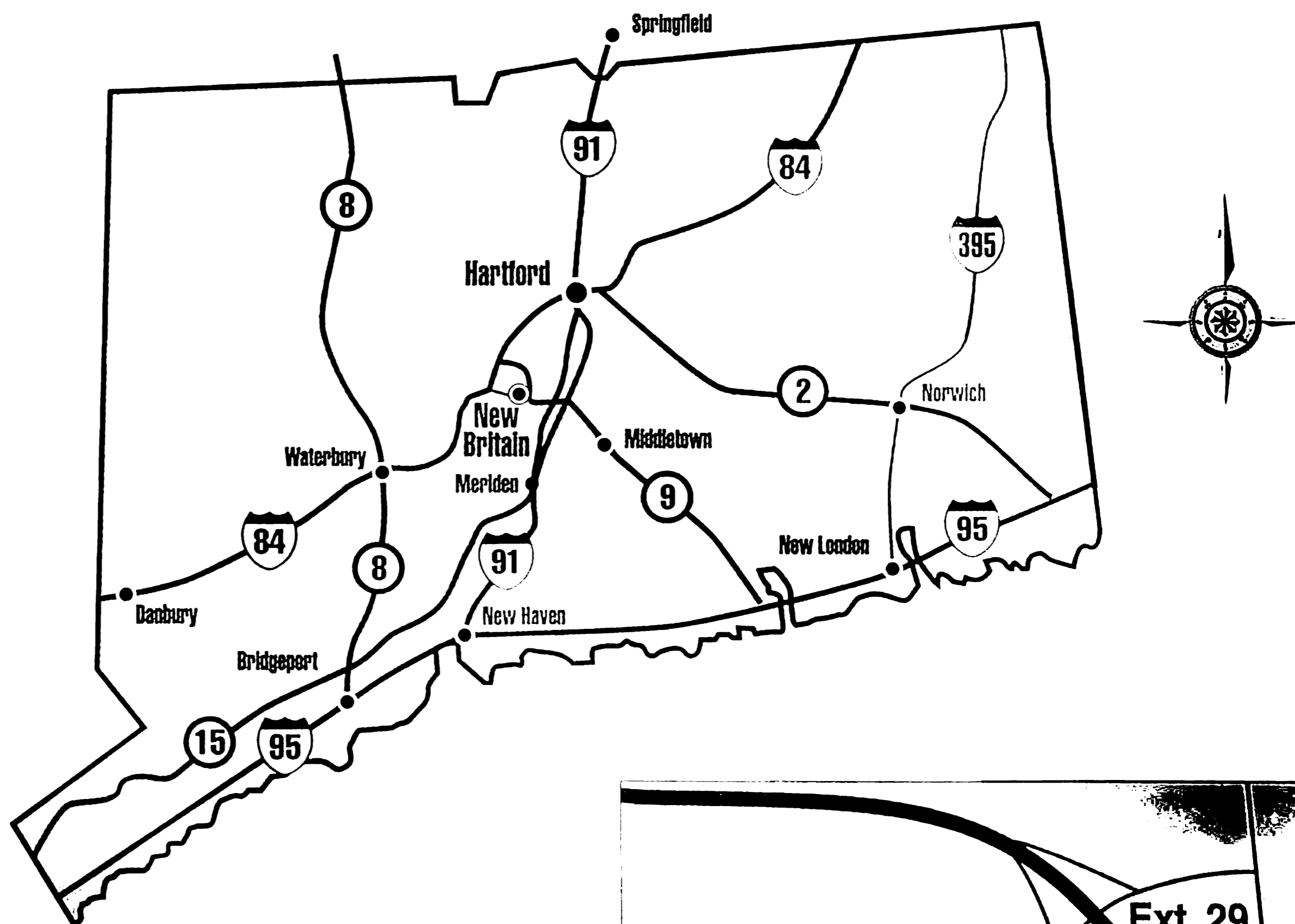
May 27	First five-week session begins; eight-week session begins
June 26	First five-week session ends
June 30	Second five-week session begins
July 4	Independence Day—No classes
July 17	Eight-week session ends
July 31	Second five-week session ends
August 4	Three-week post session begins
August 21	Three-week post session ends

Please note: This calendar was correct at the time of publication. Dates are subject to change. For the most accurate current calendar, please consult www.ccsu.edu/calendar.

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

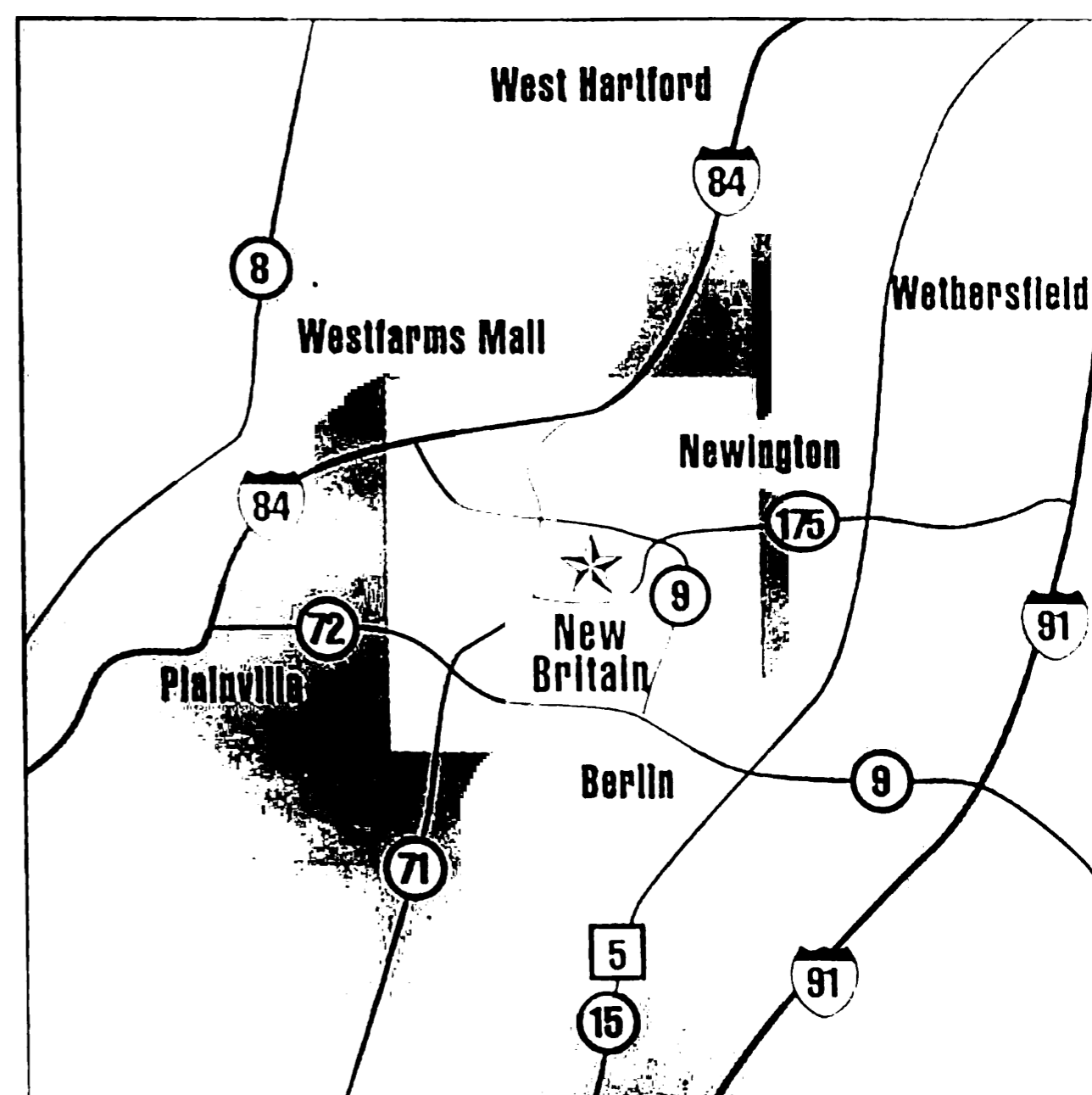
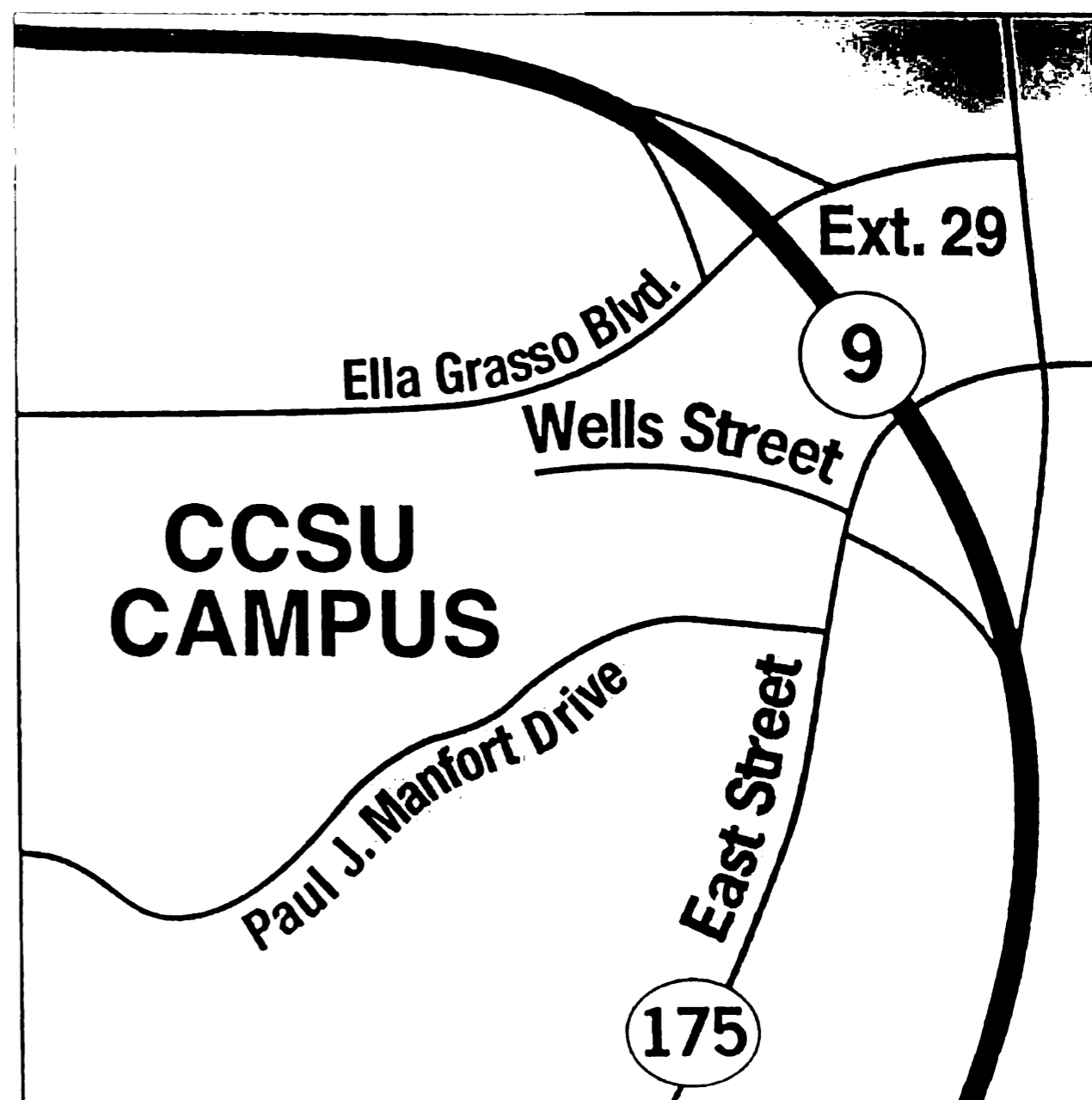
Take I-95 South to Rte. 9 North to Exit 29, Cedar Street (Rte. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.

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

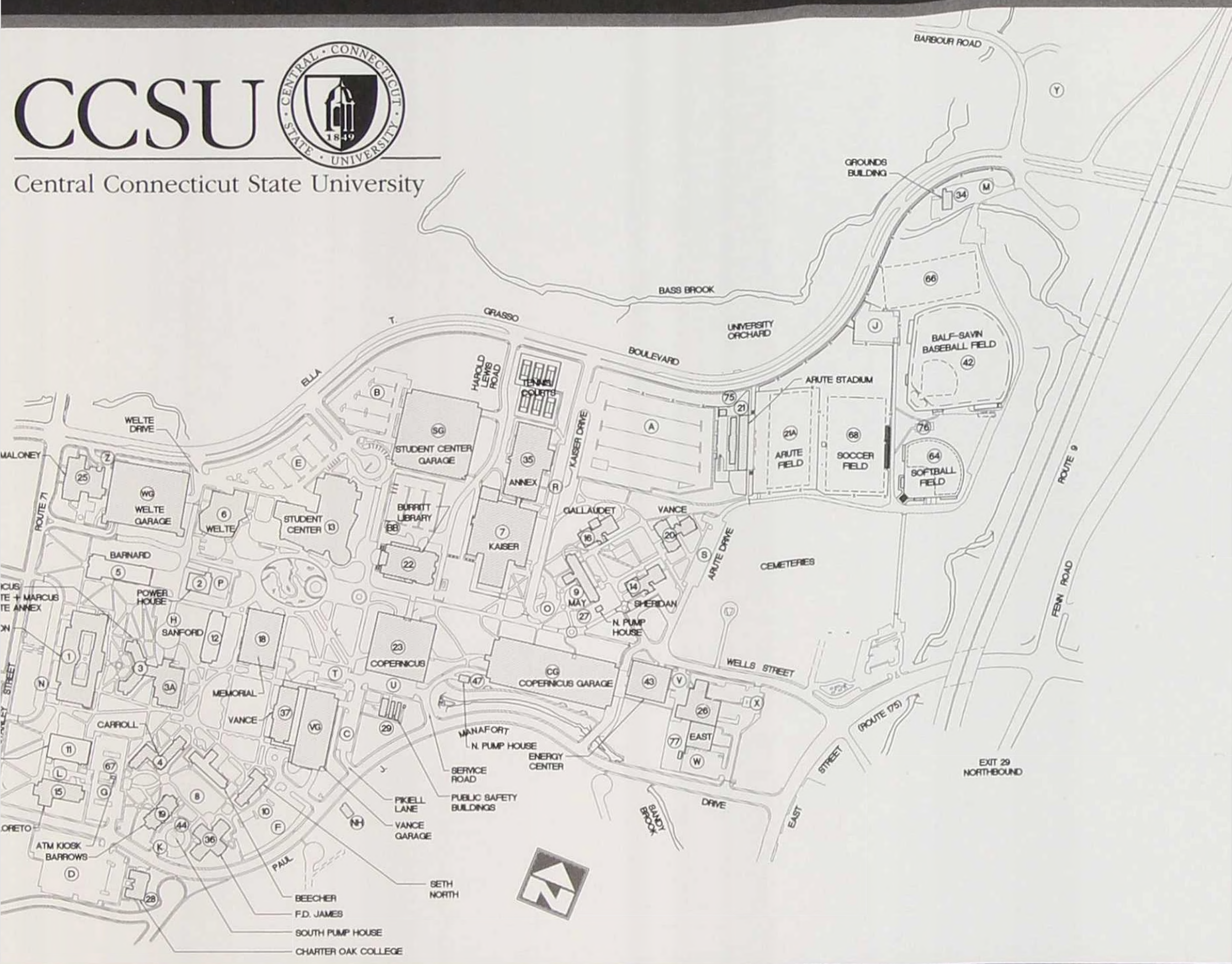
Take I-84 East to Exit 39A, to Rte. 9 South. Take Exit 29 off of Rte. 9 South to Ella Grasso Boulevard and take a right turn to the University. *Alternate Route:* Take I-84 East to Exit 35, Rte. 72 East (New Britain exit). Follow Rte. 72 East to Rte. 9 North and take Exit 29 to Cedar Street (Rte. 175). 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.



CCSU



Central Connecticut State University



- | | | | |
|--|--|---|--------------------------------------|
| 1. Lawrence J. Davidson Hall | 23. Nicolaus Copernicus Hall | 66. Recreational Field | M Maintenance Grounds Lot |
| 2. Power House (Facilities Management) | 25. James J. Maloney Hall | 67. ATM Kiosk | N Davidson Hall Reserved Lot |
| 3. Marcus White Hall | 26. East Hall (Facilities Management) | 68. Soccer Field | O Frank Marietta Circle |
| 3A. Marcus White Annex | 27. North Pump House (Facilities Management) | 69. Maintenance Facility | P Power House Lot |
| 4. Clarence Carroll Hall | 28. Charter Oak State College | 76. Hitchcock-Young Pavilion | R Kaiser Annex Lot |
| 5. Henry Barnard Hall | 29. Public Safety Building (Police Department) | NH Newman House | S Vance Residence Hall Reserved Lot* |
| 6. Herbert D. Welte Hall | 34. Grounds Building (Facilities Management) | PARKING KEY | SG Student Center Garage* |
| 7. Harrison J. Kaiser Hall | 35. Kaiser Hall Annex | A Kaiser Hall Lot* | T Memorial Hall Lot |
| 8. Catharine Beecher Residence Hall | 36. F. Don James Residence Hall | B Student Center Lot* | U Copernicus Hall Lot |
| 9. Samuel J. May Residence Hall | 37. Robert C. Vance Academic Center | BB Library Lot* | V East Hall Upper Lot |
| 10. Seth North Residence Hall | 38. Early Learning Center | C Pikiell Lot | VG Vance Garage* (after 5pm) |
| 11. Emma Hart Willard Hall | 42. Balf-Savin Field/Bottalico Baseball Pressbox | CG Copernicus Garage* | W East Hall Lower Lot |
| 12. Maria Sanford Hall | 43. Energy Center (Facilities Management) | CO Charter Oak State College Reserved Lot | WG Welte Garage* |
| 13. Student Center | 44. South Pump House (Facilities Management) | D Manafort Drive Lot* (after 5pm) | X Receiving (Gas Pump) Lot |
| 14. Robert E. Sheridan Residence Hall | 47. East Pump House (Facilities Management) | E Welte Hall Lot* | Z Fine Arts Center Lot |
| 15. Frank J. DiLoreto Hall | 64. Softball Field/Pressbox | F James Hall Lot* | |
| 16. Thomas H. Gallaudet Residence Hall | | G Willard/DiLoreto Lot | |
| 18. Memorial Hall | | H Marcus White Service Drive | |
| 19. Mildred Barrows Residence Hall | | I Commuter Parking Lot | |
| 20. Robert Vance Residence Hall | | J Balf-Savin Field Lot | |
| 21. Arute Stadium/Press Box | | K James Hall Circle | |
| 21A. Arute Field | | L Willard Hall Reserved Lot | |
| 22. Elihu Burritt Library | | | |

* Student parking. All resident hall students should park in CG, SG or WG.

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