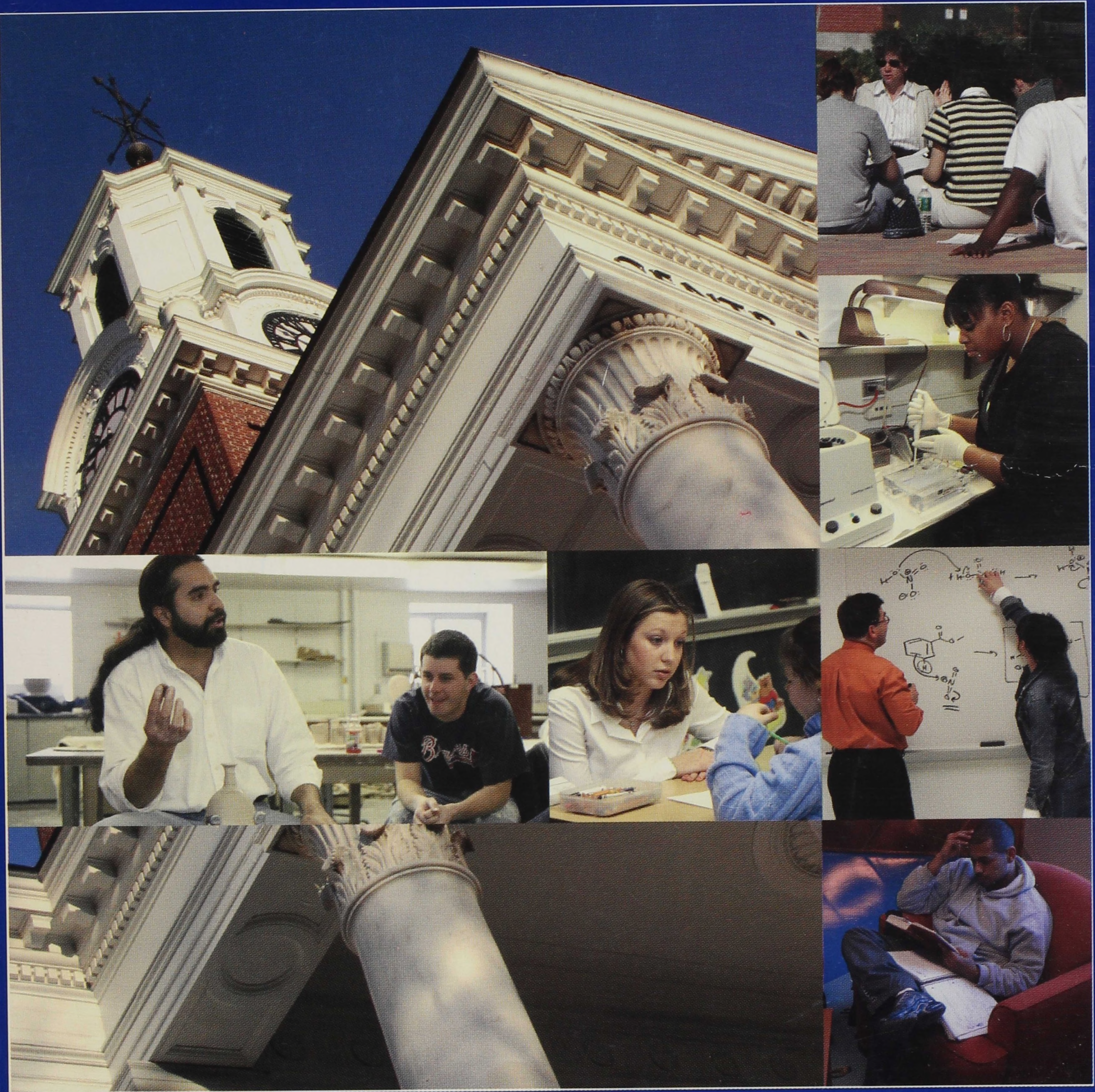


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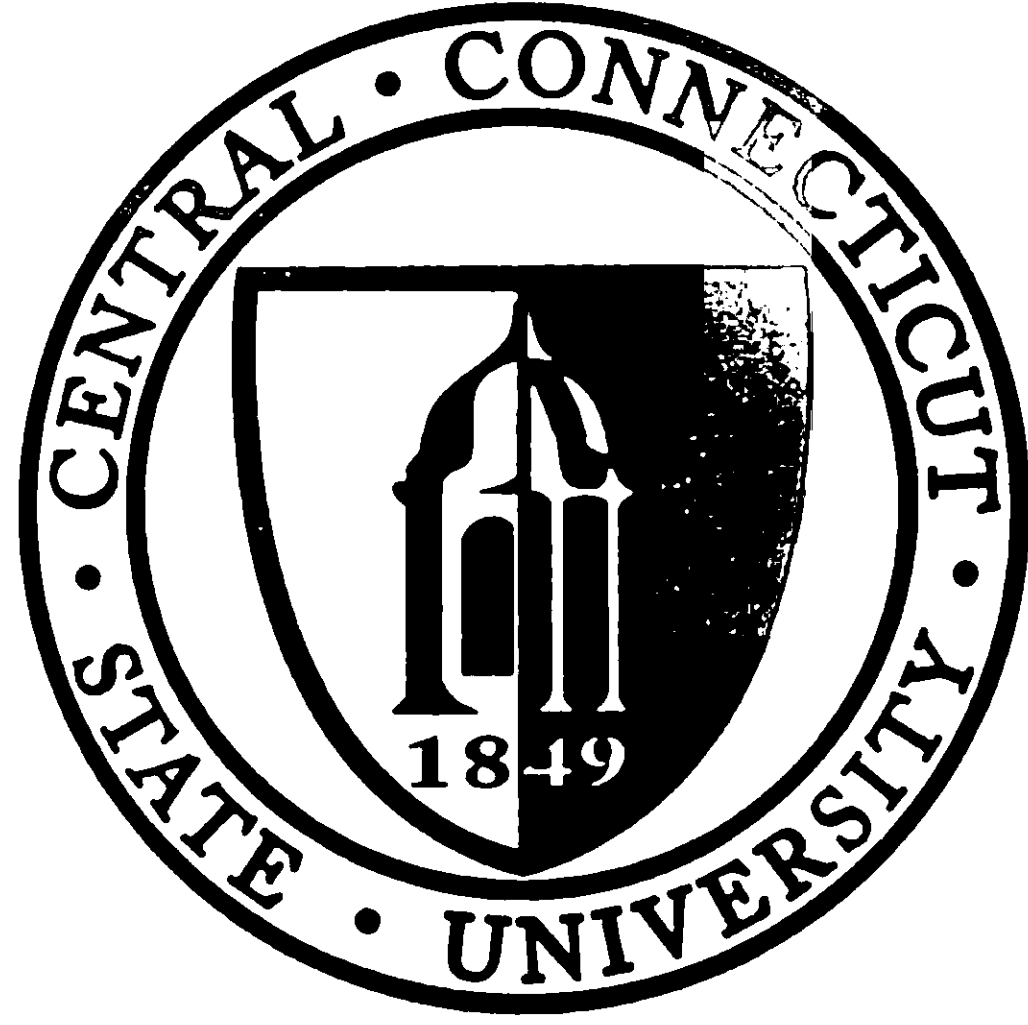
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CENTRAL CONNECTICUT STATE UNIVERSITY

New Britain, Connecticut

Undergraduate Catalog 2005–2007

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

CONTENTS

GENERAL INFORMATION	7	Veterans/Reservists/National Guard	17
The University	7	Medical Exam	17
Our Mission	7		
Accreditation and Memberships	7	ENROLLMENT CENTER—CONTINUING EDUCATION	
Affirmative Action Policy	8	AND SUMMER AND WINTER SESSION	19
Resources	8	EXPENSES	21
Advising	8	Payment of Tuition and Fees	21
Alumni Association	8	Room and Meals	21
Biotechnology Institute.....	8	Fee Schedule and Refund Policy	21
Campus Ministry	8	Refund Policy	21
Center for East Asian Studies	8	Refunds of Tuition and Fees Under Unusual Circumstances.....	22
Center for Teaching Excellence and Leadership Development	9	Non-Refundable Fees	22
Copernicus Science Computing Laboratory	9	Off-Campus Students Rent	22
Cultural Opportunities	9	Late Fee	22
Elihu Burritt Library.....	9	Returned Checks	22
Information Technology Services	9	Foreign Currency Payments	22
Institute for the Study of Crime and Justice.....	9	Certificate of Residence	22
The Learning Center.....	9	Unpaid Obligations	22
Media Center	10	CENTRAL Payment Plan (CPP)	22
Multi-Media Language Learning Center	10	Campus Debit Card (Blue Chip) Accounts	22
Sports and Recreation	10	Financial Aid Book Advances	23
Student Activities/Leadership Development	10	Persons 62 or Older	23
Student Center	10	New England Regional Student Program	23
Women's Center	11	Veterans/Reservists/National Guard	23
Writing Center	11		
Services	11	FINANCIAL AID SERVICES	25
Academic Center for Student Athletes	11	Financial Aid Assistance.....	25
Advising Center	11	Basic Financial Aid Eligibility	25
Campus Mediation Services	11	Applying for Financial Aid	25
Career Services and Cooperative Education	11	Tips When Filing for Financial Aid	25
Center for Africana Studies	12	CCSU Priority Processing Deadlines	25
Center for Caribbean and Latin American Studies	12	Notification of Financial Aid Awards.....	25
Center for Public Policy and Social Research	12	Financial Aid Resources	25
Counseling and Wellness Center.....	12	Satisfactory Academic Progress Policy	26
Early Alert Program	12	Scholarships	27
The George R. Muirhead Center for International Education ..	13		
Institute for Municipal and Regional Policy.....	13	STUDENT INFORMATION	31
Institute of Technology and Business Development	13	Bookstore.....	31
Judicial Programs	13	Cancellation of Classes or Final Examinations Due to	
Pre-Collegiate and Access Services	13	Inclement Weather	31
Special Student Services	14	Childcare	31
Tourism and Hospitality Institute	14	Identification Cards	31
University Ombudsman.....	14	Parking	31
U.S./China Business Center.....	14	Permission for Photos of Students.....	31
Veterans Affairs	14	Pet Policy.....	31
		Public Safety	31
UNDERGRADUATE ADMISSION	15	Residence Life	32
Admissions Advising	15	Student Government	32
First-Year Student Admissions	15	Student Organizations	32
Special Students	15	University Health Service.....	33
Courses for Qualified High School Students	16	Voter Registration	33
Transfer Student Admissions	16		
Connecticut Community Technical College Transfers		ACADEMIC STANDARDS AND REGULATIONS	35
with Associate Degrees	16	Typical Program	35
International Student Admissions	16	Classification	35
Transfer Credit Evaluation	16	Grading System	35
Re-Entry Admissions	17	Honor Requirements	36
Fresh Start Policy	17		

Graduation Standards	36	Cooperative Programs	68
Second Undergraduate Major	36	Community-Technical College Transfer Minors	68
Second Degree Policy	36	Engineering Transfer Program	68
Registration	37	UConn/CCSU Joint Program in Public Affairs	69
Appeals for Grade Changes Policy	38	SCHOOL OF BUSINESS	71
Acceptance of Non-Traditional Credit	39	Admission to the School of Business and the Business Major	71
Placement Testing and Remedial Courses	40	Transfer Students	71
Declaration of Major	40	Student Advising Program	71
Undergraduate Student Leave of Absence Policy	40	School of Business Curriculum	72
Withdrawal from the University	41	General Education Requirements.....	72
Change of Status.....	41	Business Requirements.....	72
Policy on Academic Misconduct.....	41	Business Degree Minimum Grade and Cumulative	
Other Regulations	43	Grade Point Average Requirements	72
Public Access to Student Records	44	Graduate Programs in Business	72
Graduation Rates	44	Accounting	72
ACADEMIC PROGRAMS	45	Business Education	73
Requirements for Bachelor's Degree Programs	45	Finance	73
Official Certificate Programs.....	45	International Business	73
General Education	45	Management and Organization	74
General Education Program	46	Management Information Systems	75
COURSES	47	Marketing	75
Course Numbering	47	Minors for Business Majors in Subjects Other Than Business.....	76
When Courses Are Available	47	Minors in Business for Non-Business Majors	76
Computer Usage	47	Student Organizations	76
International Courses	47	SCHOOL OF EDUCATION AND PROFESSIONAL	
Literature Requirement for Study Area I.....	47	STUDIES	77
General Education: Courses Under the Study and Skill Areas	47	Undergraduate Degree Programs Without Teacher	
UNDERGRADUATE FIELDS OF STUDY	51	Certification	77
SCHOOL OF ARTS AND SCIENCES	53	Professional Program for Teacher Certification	77
Anthropology	53	Degree Programs and Certification	77
Art	53	Conceptual Framework	77
Biology	54	Title II Reporting	77
Chemistry	55	Undergraduate Degree Programs Leading to Teacher	
Communication	56	Certification	78
Computer Science	57	Performance Assessment	78
Criminology and Criminal Justice	58	Admission to a Teacher Preparation Professional Program	78
Design (Graphic/Information)	58	The Admission Process	78
Economics	59	Revocation of Admission to the Professional Program	80
English	59	Post-Baccalaureate Programs Leading to Teacher	
Geography	60	Certification Only	80
History	61	Post-Baccalaureate "Program of Study"	80
Mathematical Sciences	61	Repeat Policy	81
Modern Languages	62	Appeals Process for All Students and Programs	81
Music	63	Connecticut Certification Procedures	81
Philosophy	64	Out-of-State Certification Procedures for CCSU Graduates	81
Physics and Earth Sciences	64	Counseling and Family Therapy	81
Political Science	65	Educational Leadership	81
Psychology	66	Nursing.....	82
Science and Science Education	66	Physical Education and Human Performance	82
Social Sciences	67	Reading and Language Arts	85
Sociology	67	Social Work	85
Theatre	67	Special Education	85
School of Arts and Sciences Centers	68	Teacher Education	86
		School of Education and Professional Studies Centers	88
		SCHOOL OF TECHNOLOGY	89
		Biomolecular Sciences.....	89
		Computer Electronics and Graphics Technology	90

Engineering Technology	92	Earth Sciences	129
Manufacturing and Construction Management	94	Economics	130
Technology Education	96	Education	131
Cooperative Technology Programs	97	Education—Early Childhood	131
The College of Technology	97	Education—Elementary	131
Technology Pathway Program	98	Education—Secondary	131
COOPERATIVE EDUCATION PROGRAM	99	Education—Teacher Education	132
INTERDISCIPLINARY PROGRAMS	101	Educational Foundations	133
African-American Studies	101	Educational Technology	133
American Studies	101	Electro-Mechanical Technology	133
Biochemistry	101	Engineering Technology	133
Hospitality and Tourism Studies	102	Engineering Technology—Civil	134
Internet and Multimedia Studies	103	Engineering Technology—Mechanical/Manufacturing	134
Peace Studies	103	English	135
Religious Studies	103	English as a Second Language	138
Urban Studies	103	Entrepreneurship	138
Women’s Studies	103	Finance	139
INTERNATIONAL AND AREA STUDIES	105	Fine Arts	139
African Studies	105	French	139
East Asian Studies	105	Geography	140
European Union/West European Studies	105	German	142
Latin American Studies	105	Graphics Technology	143
Middle Eastern Studies	106	Health and Human Service Professions	143
Slavic/East European Studies	106	History	143
SPECIAL PROGRAMS	107	Honors	146
Special Studies Major	107	Humanities	146
Intensive English Language Program	107	Industrial Technology	146
Honors Program	107	Integrated Science and Mathematics	147
Pre-Professional Programs	107	Intensive English Language Program	147
Cooperative Programs	108	Interdisciplinary	148
Central-UConn Exchange Program	108	Interdisciplinary Sciences	148
Hartford Consortium for Higher Education	108	International Business	148
OnlineCSU	108	International Studies	148
Reserve Officers Training Corps (ROTC)	108	Internet and Multimedia Studies	149
Study Abroad Programs	109	Italian	149
COURSE DESCRIPTIONS	111	Japanese	150
Accounting	111	Latin	150
Actuarial Science	112	Latin American Studies	150
African-American Studies	112	Law	150
American Studies	112	Library Science	150
Anthropology	112	Linguistics	150
Art	114	Management	151
Biology	116	Management Information Systems	152
Biomolecular Sciences	118	Managerial Communication	152
Business Education	120	Manufacturing Technology	153
Chemistry	120	Marketing	153
Chinese	121	Mathematics	154
Communication	122	Modern Languages	156
Computer Electronics Technology	123	Music	157
Computer Science	124	Nursing	159
Construction Management	126	Peace Studies	159
Counseling	126	Philosophy	160
Criminology and Criminal Justice	127	Physical Education	161
Dance	128	Physics	163
Design (Graphic/Information)	128	Polish	165
		Political Science	165
		Psychology	166
		Quantitative Reasoning	168
		Reading	168
		Recreation	168

Religious Studies	169
Science Education	169
Sign Language	170
Social Sciences	170
Social Work	170
Sociology	171
Spanish	172
Special Education	173
Statistics	174
Technical Courses	175
Technology Education	175
Theatre	176
Tourism and Hospitality Studies.....	177
Urban Studies	177
Vocational-Technical Education	177
Women's Studies	178
Word Processing	178
FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS	179
Emeriti Faculty	185
HONORARY DEGREE RECIPIENTS	189
INDEX	191
UNIVERSITY CALENDAR 2005–2006	200
UNIVERSITY CALENDAR 2006–2007	201
DIRECTIONS	204
CAMPUS MAP	inside back cover

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 health of our state.

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

The largest of four comprehensive universities within the Connecticut State University System, CCSU enrolls approximately 7,800 full-time and 4,500 part-time students. The University has a full-time faculty of 409 members, over 75 percent of whom possess the doctorate, and 474 part-time instructors offer an array of distinctive educational and professional experiences.

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

Our Mission

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

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

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

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

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

Central Connecticut State University aspires to be the premier public comprehensive university in Connecticut, with teaching as its primary focus, enhanced by the dynamic scholarship of its faculty; be highly regarded by its many constituents; be a 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 Associate 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, 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, religion, sex, sexual orientation, age, national origin, marital or veteran status or disability. This policy is applicable to all employment practices, admission of students, programs and services to students, faculty, staff and the community.

The University's affirmative action policy seeks to include persons of color, women, veterans and persons with disabilities in its educational programs and in all job groups of its work force. Further information is available from the Office of Multicultural Affairs, located in Davidson Hall 102 (832-1653).

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.

Advising

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

Alumni Association

The CCSU Alumni Association sponsors programs and services for students, alumni, and members of the University community. The Alumni Association also sponsors Homecoming, Alumni Day, Read Across America Day, class reunions, chapter activities and other social programs, and an affinity credit card, as well as group insurance programs, for its over 60,000 members. The Association offers its members access to the campus computing facilities (for two semesters following graduation), career and library services, and discount tickets to athletic events. A Board of Directors, consisting of alumni who volunteer their time to enhance the Association's programs and its relationship with the University community, governs the Association. For more information, contact the Alumni Affairs Office at 832-1740.

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

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

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 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.

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 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 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; resources for new and non-tenured faculty for their continued instructional development 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.

Copernicus Science Computing Laboratory

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

Cultural Opportunities

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

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

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

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

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

Elihu Burritt Library

The Elihu Burritt Library holds over 650,000 volumes, subscribes to over 3,000 periodical titles and seats 1,800. Its extensive microfiche and microfilm collections provide access to periodicals, newspapers, ERIC documents, corporate annual reports and specialized research collections. The Library serves as a partial federal documents depository and houses a 17,000-volume Polish Heritage Collection, a rare book collection of 16,000 volumes and an extensive curriculum laboratory. Access to research materials is facilitated through CONSULS, the Library's on-line catalog, as well as through searching extensive on-line databases.

Information Technology Services

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.

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 using faculty and staff expertise to train criminal justice personnel, perform applied research, and evaluate criminal justice initiatives for governmental clients. The ISCJ also serves as a centralized clearing-house for the exchange and dissemination of information concerning forensic technology and other aspects of 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.

The Learning Center

The Learning Center (TLC) provides a full range of academic support services for students seeking additional help with their coursework. TLC offers individual study skills tutorials, mathematics tutoring, Praxis I

practice for students applying for teacher certification, the Mathematics Placement Exam, ID 102: Master Student (a 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 (832-1900). For more information, visit our Web site at www.ccsu.edu/learnctr/.

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

The **Mathematics Tutoring Center**, located in Copernicus Hall, Room 242, provides drop-in tutoring for lower division mathematics courses. The tutorial schedule is posted in The Learning Center during the first week of every semester. The schedule includes both day and evening hours.

Media Center

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

Multi-Media Language Learning Center

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

Sports and Recreation

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

Harrison J. Kaiser Hall houses the Physical Education and Athletics departments; the William H. Detrick Gymnasium, seating 3,200 spectators; the Jack Suydam Natatorium; and special func-

tion 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 (832-1990) is located in the Student Center. Central Activities Network (C.A.N.) is the major

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

Students who volunteer with the Central Activities Network gain valuable experience in leadership, teamwork, communication, time management, and budgeting skills. The main component of C.A.N. is fun and friendship. The organization is open to all CCSU students and welcomes input and ideas from everyone. For more information, please stop by the Central Activities Network office located in the Student Center, Room 203, or check out the Web site at <http://stdctr.ccsu.edu/can>.

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

Student Center

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

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 (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>.

Women's Center

The Ruthe Boyea Women's Center, named for its founding director, is a multi-purpose program and service center for students, staff and faculty. The center offers a variety of services for and about women, including peer education, re-entry counseling, support groups, crisis intervention, a luncheon series and programming and research on women's issues. The staff of the center also sponsors educational and cultural programs in response to the needs and interests of campus women. The Ruthe Boyea Women's Center is located on the second floor of the Student Center (832-1655). Both men and women are welcome.

Writing Center

The Writing Center (Willard Hall, Room 305) provides one-to-one tutorials and small-group workshops to help members of the CCSU community improve their writing in areas such as drafting compositions, preparing research papers and taking essay exams. Appointments for tutorials are available Monday through Friday from 9 a.m. to 4 p.m. by calling 832-2765.

Services

Academic Center for Student Athletes

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

Advising Center

The Advising Center assists students in developing and implementing academic and career plans. For new students, the Advising Center provides pre-registration advising on University requirements. The Advising Center, in collaboration with the Dean of Arts and Sciences, coordinates the advising of all students who have not chosen a major. The Center also advises Pre-Social Work and

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

Campus Mediation Services

Campus Mediation 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 Natalie Stimpson-Byers, Davidson Hall, Room 103, 832-1603.

Career Services and Cooperative Education

The University Career Services Office (www.ccsu.edu/career) provides a comprehensive program of career services to all students. Graduating students are provided assistance with making the transition to employment through workshops on resume writing, interviewing techniques, job search strategies and information on employment. Recruiters from major area corporations, government agencies and school systems visit the campus as a part of the year-long campus recruiting program. In addition the office maintains listings of full- and part-time jobs which can also be accessed through the Career Services/Co-op homepage

(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 99 of this catalog. Through this program, students work at six-month, paid positions which are related to their major field of study and provide them with real world experience.

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

Center for Africana Studies

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

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

The Center provides mentoring programs for students on campus and in the community. It sponsors conferences, a lecture series, and community events.

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; Universidad de Concepcion, Chile; Universidad Autonoma de Nuevo Leon, Mexico; and Universidad Autonoma de Chihuahua, Mexico. The Center for Caribbean and Latin American Studies sponsors a variety of community events and also supports an active research facility.

Center for Public Policy and Social Research

The Center for Public Policy and Social Research (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 also 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, 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.

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 (832-1945).

Early Alert Program

The Operation 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 Natalie Stimpson-Byers, Assistant to the Vice President for Student Affairs/Coordinator of Special Student Services; Davidson Hall, Room 103, 832-1603.

The George R. Muirhead Center for International Education

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

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

The Center also welcomes a growing number of international students to campus each semester. From the moment they are recruited until graduation and beyond, the Center advises and supports international students as they pursue their studies on our campus. Through intercultural programming, which brings students of many different cultures and origins together, the Center fosters a spirit of cross-cultural

understanding, where everyone involved has the opportunity to learn about someone else's customs and values, learning about themselves in the process.

Institute for Municipal and Regional Policy

The Institute for Municipal and Regional Policy (IMRP) promotes the mutual economic benefit of regional alternatives to problem solving and facilitates intergovernmental cooperation and comprehensive planning to address regional solutions to fiscal and social problems in Connecticut. The IMRP serves state and local government officials and entities, as well as community and business organizations. The IMRP provides educational forums and materials, facilitation services, and research on innovative regional alternatives.

Located in the Robert Vance Academic Center, the IMRP's recent activities have included the creation of a municipal official exchange program and educational forums and presentations that have addressed "smart growth," taxation, workforce development, and the links between housing and education.

Institute of Technology and Business Development

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

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 effectively respond to incidents or issues which 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 (832-1667).

Pre-Collegiate and Access Services

The office of Pre-Collegiate and Access Services coordinates the Educational Opportunity Program, CCSU's Connecticut Collegiate Awareness and Preparation Program (ConnCAP) and the Upward Bound program at Central Connecticut State University.

The Educational Opportunity Program (EOP) is a five-week summer program designed for students who have the potential to do college-level work but do not meet CCSU's regular admissions standards. EOP students live on campus in CCSU residence halls during the summer with all expenses paid, including books, tuition, room and board.

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

This program is limited to 50 Connecticut residents who have graduated or will be graduating from an accredited Connecticut high school or have attained their General Equivalency Diploma. Students must demonstrate a financial need. EOP is not open to transfer students.

CCSU's Connecticut Collegiate Awareness and Preparation Program and

Upward Bound are college preparation programs serving 130 low income, first generation college-bound middle and high school students from New Britain and Bristol. The goal of the programs is to increase the number of students who complete high school and successfully enroll in post-secondary education. Working cooperatively with the middle and high schools in these cities, the programs provide a wide range of activities and services to strengthen academic skills, self-esteem, motivation and a love of learning. Services and activities take place year round in the middle and high schools and on CCSU's campus in the summer.

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

Special Student Services

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

Academically-prepared students with disabilities are encouraged to meet with Dr. George Tenney, director of the Office of Special Student Services, Willard Hall, Room 100 (832-1957), TDD (860) 832-1958, or with Ms. Natalie Stimpson-Byers, Assistant to the Vice President for Student Affairs, Davidson 103 (832-1603), for assistance in application and educational planning.

Tourism and Hospitality Institute

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

of the industry is little known and by default anecdotal in nature.

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

University Ombudsman

The University Ombudsman 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 Ombudsman also helps the University to develop, implement, and maintain policies and procedures which equitably address the rights and responsibilities of everyone on campus. The University Ombudsman 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 Ombudsman is not intended to replace existing University governance or appeal procedures but rather to improve communications regarding University operations and to enable members of the University community to protect their rights and have their concerns responded to in an efficient and effective manner. The office of the University Ombudsman is located in the Caribbean and Latin American Studies Center on the first floor of Burritt Library. (832-0056).

U.S./China Business Center

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

Located in Marcus White Hall, the U.S.-CBC develops programs to promote an understanding of doing business in China and the potential of exporting to the China market; assists U.S. companies and/or individuals in conducting business with China; and promotes CCSU as a leading, innovative educational institution facilitating U.S.-China relationships

through its public policy training programs for Chinese officials and professionals.

Veterans Affairs

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

Richard Bishop, *Acting Director*
 J.A. Tony Carberry, *Associate Director*
 Patricia Gardner, *Associate Director*
 Douglas Benoit, *Assistant Director*
 Eric Dobler, *Assistant Director*
 Chris Gutierrez, *Assistant Director*
 Kristin Lake-Piano, *Assistant Director*
Phone: (860) 832-CCSU (2278)
E-mail: admissions@ccsu.edu
Web site: http://www.ccsu.edu

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

To be considered for full-time or part-time admission, applicants should submit the completed Application for Undergraduate Admission, a non-refundable \$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 the southwest corner of Davidson Hall, Room 115. Students and parents are encouraged to visit the

campus for individual counseling and advisement. Admissions counselors are available for consultation concerning educational plans at Central Connecticut State University. Appointments may be scheduled by calling the Office of Admissions. Campus tours are also available; call our tour line at 832-2289 or e-mail us at tour@ccsu.edu. All correspondence and inquiries concerning undergraduate admission to the University, full- and part-time, first-year, transfer, re-entry and international, should be addressed to the **Office of Admissions, Central Connecticut State University, P.O. Box 4010, 1615 Stanley Street, New Britain, CT 06050-4010.**

First-Year Student Admissions

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

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

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

Students whose preparation does not follow this pattern may still qualify for admission if in the judgement of the Director of Recruitment and Admissions there is strong evidence that they have the potential to complete a degree program. 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 are not graduates of a secondary school should submit their secondary school transcript up to the time of withdrawal and a copy of their high school equivalency diploma and scores.

The Scholastic Assessment Test I (SAT I) of the College Entrance Examination Board (CEEB) is required of all first-year student applicants. Applicants should arrange to take the test through their high school guidance counselor. Information on the test can be obtained from their high school or by contacting **College Board Admissions Testing, P.O. Box 6200, Princeton, NJ 08541-6200, telephone (609) 771-7600; or on the Web at: www.collegeboard.com.** Applicants should have the test results sent from CEEB to the Office of Admissions. **CCSU's CEEB code is 3898.** In special cases, the submission of SAT I scores may be waived at the discretion of the Director of Admissions (i.e., for applicants who graduated from high school several years before applying, veterans and other adult learners).

Advanced Placement (AP): CCSU accepts for college credit, Advanced Placement (AP) courses taken in high school under the auspices of the College Entrance Examinations Board's Advanced Placement Program, provided the student scores a minimum of 3 on the test. Official scores should be submitted for consideration. When credit is awarded, it is entered on the student's college transcript, but the grade is not included in the college grade point average.

Special Students

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

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

4118; fax: 609-771-7944; e-mail: ssd@info.collegeboard.org.

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

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

Courses for Qualified High School Students

When space is available, Central Connecticut State University will allow qualified high school students to enroll in college courses prior to graduation from high school. Students should be recommended by their high school principal and approved by a CCSU department chair for appropriate college course work. For information on enrollment, contact the Office of Continuing Education/ Enrollment Center (832-2255).

Transfer Student Admissions

Transfer students should send applications directly to the Office of Admissions. A student wishing to transfer to Central Connecticut State from another institution of higher learning must complete an application for admission and have **official** transcripts sent directly from each high school and post-secondary school attended. Hand-carried transcripts and transcripts sent by students are considered **unofficial**, even when they carry the college seal or signatures that are placed on official records. *Failure to list all institutions or to provide **official** transcripts may be considered sufficient reason for refusal of admission or dismissal from the University.* Transfer credit may not be awarded at any time for course work not listed or not included on official transcripts provided as part of a completed application. Any applicant who has completed 12 or more credits (not including remedial course work) at a regionally accredited post secondary institution will be considered for admission as a transfer student.

Transfer students who have earned a minimum of 12 credits (not including remedial course work) at regionally accredited post secondary institutions need not present SAT I scores. *To be considered* for transfer

admissions, an applicant must have earned a minimum of 12 credits, not including remedial work, and have a cumulative college grade point average of 2.00 or higher for all course work attempted.

Connecticut Community Technical College Transfers with Associate Degrees

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

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

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

International Student Admissions

International students should complete the **Application for International Undergraduate Admission**, which may be obtained from the Office of Admissions. A prospective student should submit the completed application, the non-refundable application fee and all required supporting credentials by the following deadlines. Fall (August – December) semester candidates should submit applications by April 1; students applying for the spring (January – May) semester should apply by November 1. All credentials submitted by the applicant become part of the student's permanent CCSU file and are not returned.

Applicants must submit official copies of their secondary and post-secondary educational records. If records are in a language other than English, official translations must be submitted as well. Applicants whose native language is not English are required to demonstrate their proficiency in English by submitting a Test of English as a Foreign Language (TOEFL) test score of at least 500 (173 on computer-based test). Information on the TOEFL may be obtained from Educational Testing Services, P.O. Box 6151, Princeton,

NJ 08541-6151, USA, telephone (609) 771-7243 or 771-7100. Finally, applicants must submit evidence of financial resources adequate for all expenses during the period of undergraduate study. When all the necessary information has been received, the applicant will be notified by mail of the decision. 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 138 (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 which are acceptable for transfer to Central Connecticut State University. In general, credits from other regionally accredited colleges and universities will transfer, provided that the courses are similar in scope and content to those offered for credit at CCSU and a grade of "C-" or better was earned in the course. Specific questions concerning transfer evaluations should be addressed to the Office of Admissions. Please note, regardless of the number of credits transferred, a student must complete a minimum of 45 credits at CCSU in order to earn the University's bachelor's degree (see Academic Standards and Regulations: Residence Requirements for Degree). Students currently enrolled in another college should have their official final transcripts submitted to the Office of Admissions after their grades have been posted so that their evaluation can be updated. Failure to indicate completed coursework and to provide official transcript thereof may result in CCSU refusal to award transfer credit. Transferring students are responsible for submitting course descriptions, if requested.

- **Credit by Examination:** A student may earn up to 30 credits at CCSU by examination. Departmentally approved Subject Examinations from the College Level Examination Program (CLEP) of the College Board, or from any other nationally recognized

standardized examination program, will be recognized by CCSU. Official results of such examinations should be submitted for consideration.

- **Credit for Armed Forces:** Credit may also be awarded for military service schools and/or United States Armed Forces Institute (USAFI) credit courses (taken after 1945) if validated by a certified USAFI Center. Official documents should be submitted for consideration.
- **Evaluation of Work Done Outside the United States:** Credit may be awarded for work completed at institutions outside the United States. Students are responsible for submitting international transcripts to an evaluating agency recognized by the National Association of Foreign Student Affairs (NAFSA). After the Office of Admissions has received the agency's evaluation, it will assess the agency's recommendations to determine accreditation and transferability of credit. A minimum grade of "C" must be earned for a course to transfer. For more information on NAFSA recommended agencies, contact the Office of Admissions.

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

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

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

Re-Entry Admissions

A student who was formerly matriculated at Central Connecticut State University and subsequently withdrew voluntarily, or at the request of the University, must request reactivation of his or her former file when seeking readmission to the University. A Reactivation Request form may be obtained from the Office of Admissions, 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 cata-

log, 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, 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 Barrows Hall, Room 103 (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 are required to submit a medical history, current immunization record and physical examination form signed by a physician. Additionally, if the student is under 18, the parent or guardian must sign for permission for medical treatment. All part-time matriculated students are required to submit the necessary immunization requirements in keeping with the policy of the State of Connecticut Department of Health Services. Full-time, part-time, exchange, and "IELP" international students are required to submit a completed medical 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 (832-1925) or online at www.ccsu.edu/healthservice/Forms/htm.



ENROLLMENT CENTER — CONTINUING EDUCATION AND SUMMER AND WINTER SESSION

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

The Enrollment Center, Willard Hall Lobby, is a centralized service center for all students (full- or part-time). Students may obtain all forms needed to initiate administrative and academic actions at the Center. The Center's hours of operation are Monday through Thursday, 8 a.m. to 6 p.m.; Friday, 8 a.m. to 4 p.m. and Saturday morning, during the academic year, 7:45 a.m. to 12 noon.

Part-time Matriculant Program

Application for undergraduate part-time degree study is made in the Office of Admissions, Davidson Hall (832-2278). Students who choose to undertake or to complete an undergraduate or graduate degree on a part-time basis register for courses through the Enrollment Center/Office of Continuing Education, Willard Hall Lobby.

Part-time students may enroll in day or evening classes. Saturday morning classes are also available. The Continuing Education bulletin and/or registration booklet provide all the details and fees.

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

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

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

Non-matriculated undergraduate students must apply for matriculation (acceptance into a planned program of study) before 30 credits are completed. Students will not be allowed to matriculate after completion of 30 credits without specific recommendation of an academic dean of the University.

Advisement. Undergraduates who plan to work toward a degree and need advice on course selection should consult an advisor in the Advising Center (832-1615) before registration. Undergraduate part-time matriculants are assigned an advisor in their major department.

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

Summer and Winter Session

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

Summer Session. During the summer, Central Connecticut State University operates two five-week sessions, one eight-week session and a three-week post-session. Courses, both undergraduate and graduate, are offered in the day and evening.

Summer sessions are designed to provide opportunities for 1) incoming first-year students who wish to accelerate their college work by entering the University before the beginning of the academic year, 2) students from other colleges, 3) Central Connecticut State students who wish to accelerate their studies toward a degree, 4) teachers and other graduate students who wish to pursue a master's or other advanced degrees, 5) graduates of other colleges interested in meeting certification requirements for teaching and 6) qualified high school students seeking college-level courses.

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

The maximum course load is seven credits during each five-week summer session and four credits during the post-session. The

eight-week session is counted as part of the first five-week session.

Winter Session. During the winter break, Central Connecticut State University operates an intensive three-week Winter Session. Over 100 credit courses are offered, allowing students to accelerate their college work. The maximum course load is four credits.

EXPENSES

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

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

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

Fees	CT Resident	Non-Resident
Tuition	\$1,517.00	\$4,910.00
General	987.00	987.00
State University	396.50	972.50
Student Activity Information	70.00	70.00
Technology	111.50	111.50
Total	\$3,082.00	\$7,051.00

A Sickness Insurance Fee of \$280 is billed to all students in the fall semester, and \$281 in the spring semester. Those who already have adequate insurance may complete a waiver through CentralPipeline at <http://pipeline.ccsu.edu>.

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

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 and December 15. Room costs are \$2,543 for James Hall and \$2,125 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 \$1,531–\$1,692 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 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:

- withholding of University services, course registration, transcripts of grades or other official papers
- prevention of re-admission until unpaid financial obligation is paid in full
- deny future course registration

- 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 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 various cafeterias (including Memorial Hall dining and Student Center Food Court) and the campus Barnes and Noble Bookstore. Purchases may be made using the Blue Chip Card in all campus vending machines, including campus copiers and residence hall laundry machines, and at many off-campus locations. Information on off-campus locations is available at the Card Office or on the Card Office Web site, www.cardoffice.ccsu.edu. Blue Chip deposits can be made at the Card Office and Bursar's Office by cash, check, and credit card. Credit card transactions can also be made over the phone by calling the Card Office (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 five Card Value Centers, located at the Library, Microcomputer Lab, Student Center, 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 month of school. After Card Office hours, lost cards should be reported to the Police Department (832-2375); a temporary ID will be issued and a “hold” will be placed to deactivate the account.

Financial Aid Book Advances

Some students receiving financial aid may have difficulty purchasing books at the start of the semester since financial aid funds are normally distributed after the first three weeks of classes. Full-time students receiving financial aid, where the amount of the financial aid exceeds all CCSU charges, are eligible to receive a book advance against 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 832-2010.

Persons 62 or Older

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

New England Regional Student Program

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

For more information about the New England Regional Student Program, contact the Office of the Regional Student Programs, The New England Board of Higher Education, 45 Temple Place, Boston, MA 02111; phone: (617) 357-9620; Web site: www.nebhe.org — or contact the Office of Recruitment and Admissions, Davidson Hall, Room 115.

Veterans/Reservists/National Guard

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

V.A. educational benefits are paid at the end of each month during the semester for which the veteran is enrolled. Any change in credit load and/or degree program should be reported to the Office of Veterans 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 (832-2838).

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

Financial Aid Assistance

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

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

Basic Financial Aid Eligibility

To be eligible to receive financial aid a student must:

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 matriculated (formally accepted by the Office of Admissions)
4. be making satisfactory academic progress
5. not be in default on a federal loan or owe a refund on a federal grant for any attendance at any institution

Applying for Financial Aid

The Free Application for Federal Student Aid (FAFSA) is the only application needed to file for financial aid at CCSU. It is free and may be accessed on line at www.fafsa.ed.gov. To file electronically, the student and parent need to go on line at www.pin.ed.gov and request a personal identification number (PIN).

The FAFSA may be filed or renewed beginning January 1 for the forthcoming academic year. The U.S. Department of Education and CCSU encourage students to file or renew their FAFSA electronically; normally it takes about five business days for the completed FAFSA to download to the Financial Aid Office. A student may file a paper FAFSA, but it may take up to eight weeks for CCSU to receive the data. To obtain a paper copy, call 1-800-433-3243.

When filing a FAFSA, include CCSU's Federal ID Number—001378—to direct it to CCSU.

Tips When Filing for Financial Aid

1. Complete the entire application accurately, including all optional informa-

tion. Omitting any information may cause delays in the processing.

2. List CCSU as a college of choice, including its Federal ID Number (001378).
3. For persons who have not yet filed their previous year's federal tax returns at the time they complete or renew the FAFSA, enter estimates for the requested tax year.
4. After completing the FAFSA and upon receipt of notification from the U.S. Department of Education, go on line to review and download a copy of the completed FAFSA. The first page of the FAFSA (Student Aid Report or SAR) will list any items which need further attention or documentation.

CCSU Priority Processing Deadlines

A student may file or renew their FAFSA for the fall semester until October 1. However, the CCSU Financial Aid Office posts two **priority processing deadlines** to encourage early filing and renewal of the FAFSA.

These deadline dates are:

1. **March 1**—for all new incoming first-year and transfer students.
2. **April 15**—for all continuing CCSU students.

This enables 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.

It is not necessary to be formally admitted to CCSU prior to filing or renewing the FAFSA.

Notification of Financial Aid Awards

Once a student's FAFSA has been received at CCSU and he or she becomes a fully matriculated student at CCSU, the financial aid awarded may either be viewed by a printed and mailed award letter or in the student's personal CCSU CentralPipeline account.

Financial aid is normally awarded for the full academic year on a full-time basis, but only half of the award may be used for one semester at a time.

A student must be enrolled for a minimum of six semester credit hours to receive financial aid.

A student's eligible need to receive financial aid is determined by data pro-

vided by the FAFSA and cost of education factors determined by the CCSU Financial Aid Office.

Awarded aid is subject to change as circumstance may dictate including changes in enrollment status, receipt of other funds, and funding availability.

Financial Aid Resources

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

GRANTS AND SCHOLARSHIPS

- **Federal Pell Grant** — Eligibility is based on financial need. Award amount is dependent upon qualification for federal funds. Only those students who have not earned a bachelor's degree are eligible for a Pell Grant.
- **Connecticut State University Grants (CSUG) and Connecticut Aid for Public College Student Grant Program (CAPS)** — Eligibility is based on financial need. Amount is determined by Financial Aid Office.
- **Federal Supplemental Educational Opportunity Grant (FSEOG)** — Eligibility is based on exceptional demonstrated need. Pell Grant recipients have priority. Award amount is dependent upon allocation of federal funds. Only those students who have not earned a bachelor's degree are eligible.

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

LOANS

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

- **Federal Direct Stafford Loan** — subsidized and unsubsidized loans with a variable interest rate not to exceed a maximum rate which is adjusted each July 1. Interest is applied six months after the student terminates college studies. For unsubsidized loans, interest is applied the day the loan is disbursed and the student is responsible for the interest accruing during their enrollment in school.
- **Federal Perkins Loan** — Available to undergraduate and graduate students who meet the financial need requirements. Interest rate is applied nine months after student terminates

college studies. Priority is given to early applicants and award amount is dependent upon available funds allocated from federal sources.

- **Federal Direct PLUS Loan (parent loan)** — Parents of dependent students may apply for loan. Eligibility is not need-based and a good credit history is necessary. Repayment begins 60 days after disbursement of funds. Variable interest rate not to exceed 9 percent, adjusted each July 1. Parent may borrow cost of education budget amount *minus* other aid.
- **Additional Unsubsidized Federal Direct Stafford Loan** — Available to independent undergraduate students and dependent undergraduate students whose parents have been denied a PLUS loan. Not need based. Interest and repayment similar to Federal Direct Unsubsidized Stafford Loan.
- **Alternative Loans** — These are loans which the student or parent may apply for and receive based on credit worthiness from outside lending sources.

EMPLOYMENT

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

Satisfactory Academic Progress Policy

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

Academic progress towards graduation is measured on a yearly basis. Measurement is conducted at the close of the spring semester. An academic year runs from the beginning of the fall semester to the end of the spring semester. Deficiency with the quantitative *and* qualitative Satisfactory Academic Progress Guidelines will result in the denial of financial assistance. Applicants denied financial assistance because of inadequate Satisfactory Aca-

ademic 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) (FDUL, 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

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

Joseph Bellomo Scholarship Fund—awarded annually to varsity athletes on the softball team

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

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

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

Anna Bubser-Judd Trust Scholarship—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

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

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

CBA Construction Law Scholarship—awarded to incoming 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

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

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

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

Class of 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 decent in good academic standing

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

Norman Gerber Scholarship—awarded to an active member of the 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

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

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

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

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

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

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

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

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

Litton Industries Scholarship—awarded to junior or senior students in the School of Technology

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

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

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

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

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

<http://www.ccsu.edu/police/>. Or send a written request to: Central Connecticut State University, Police Department, P.O. Box 4010, New Britain, CT 06050-4010.

Police: CCSU has maintained its own police department since 1976. In 1999 the CCSU Police Department received international recognition through its accreditation by the Commission on Accreditation for Law Enforcement Agencies. The CCSU Police Department was the first university police department in Connecticut — and the second in New England — to receive this endorsement.

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

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

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

Residence Life

Information on University housing is forwarded shortly after official notification of acceptance from the Office of Admissions. Applications for rooms, on the forms provided by the University, are considered in the order of acceptance. Because of the demand for on-campus housing, students are urged to return housing applications and pay housing fees promptly.

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

Student Government

The full-time undergraduate students of CCSU make up the membership of the Student Government Association (SGA). The SGA Senate is the representative body of the SGA. Its members, the Executive Officers and Senators of the SGA, are democratically elected by the full-time undergraduates of CCSU.

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

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

Student Organizations

Clubs and organizations provide students with opportunities for social interaction, recreation, leadership training and enhancement of academic interests. For most students, involvement in organizations is an important aspect of their education. Information about clubs can be obtained at the Club Drive or 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 and Special Interest

Accounting Society, African Studies Association, American Marketing Association, Anthropology Club, Art Club (*Le Salon*), Athletic Trainers Association, Best Buddies, Biology Club, Caducean Club, Chemistry Club, College Democrats, College Republicans, Communication Club, Computer Club, Construction Management Club, Criminal Justice Club, Economics Club, Education Club, Environmental Club, Exercise Science Club, Finance Association, Geography Club, Habitat for Humanity, History Club, Literary Arts Society, Management Information Systems (MIS) Club, Music Educators National Conference, Philosophy Club, Photography Club, Physical Education and Health Fitness Club, Physics and Earth Sciences Club, Progressive Students Alliance, Psychology Club, Reality

Readings (book club), Scholae Quadriquis (debate club), Social Work Club, Society of Paranormal Investigations, Sociology Club, Students for Animals, T.E.A.M.—Tomorrow's Entrepreneurs and Managers, Veterans Appreciation Organization, Weekenders

Fraternities and Sororities

Lambda Theta Alpha Latin Sorority Interest Group, Lambda Theta Phi Fraternity; Phi Delta Theta Fraternity; Phi Sigma Sigma Sorority

Governmental

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

Honors and Professional

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

International, Cultural and Language

Black Student Union, Chinese Student Association, French Club (*Le Cercle Français*), German Cultural Club, International Relations Club, Italian American Student Organization (*Il Circolo Italiano*), Japanese Club, Japanese Pop Culture Club, Latin American Student Organization, Mosaic Center Committee, Muslim Student Association, NAACP — CCSU Chapter, Peru Club, Polish Club, PRIDE (gay, lesbian, bisexual student organization), South Asian Students Association, Spanish Club, United Caribbean Club

Media and Publications

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

Performing

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

Religious

Christian Students at Central, Hillel Jewish Student Organization, Newman Club, Revival, The Search for Truth, Upside Down Club

Sports and Recreation

Central Car Club, Central Disc Club, Central Role Playing Group, Chess Club, Crew Club, Equestrian Club, Hang Gliding Club, Ice Hockey Club, Karate Club, Lacrosse Club, Lady Hooligans Women's Rugby Club, Men's Rugby Club, Men's Soccer Club, Outing Club, Paintball Club, Photography Club, Ski & Snowboard Club, Tae Kwon Do Club, Track and Running Athletic Club (TRAC), Volleyball Club, Women's Field Hockey Club

*These organizations are adjunct to University departments.

University Health Service

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

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

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

Treatments *requiring a nominal fee* include:

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

Full-time students are required to submit a completed health form (medical history, physical exam and up-to-date immunization record) one week prior to registration at the University. Part-time students are required by the University to have up-to-date immunization records for measles and rubella consistent with State of Connecticut Department of Health Service guidelines. Failure to submit the required medical information may result in the withholding of registration schedules, grades or housing assignments until the obligations have been met. The health form is available in the University Health Service, Marcus White Annex (832-1925).

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

The University Health Service is open Monday–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.

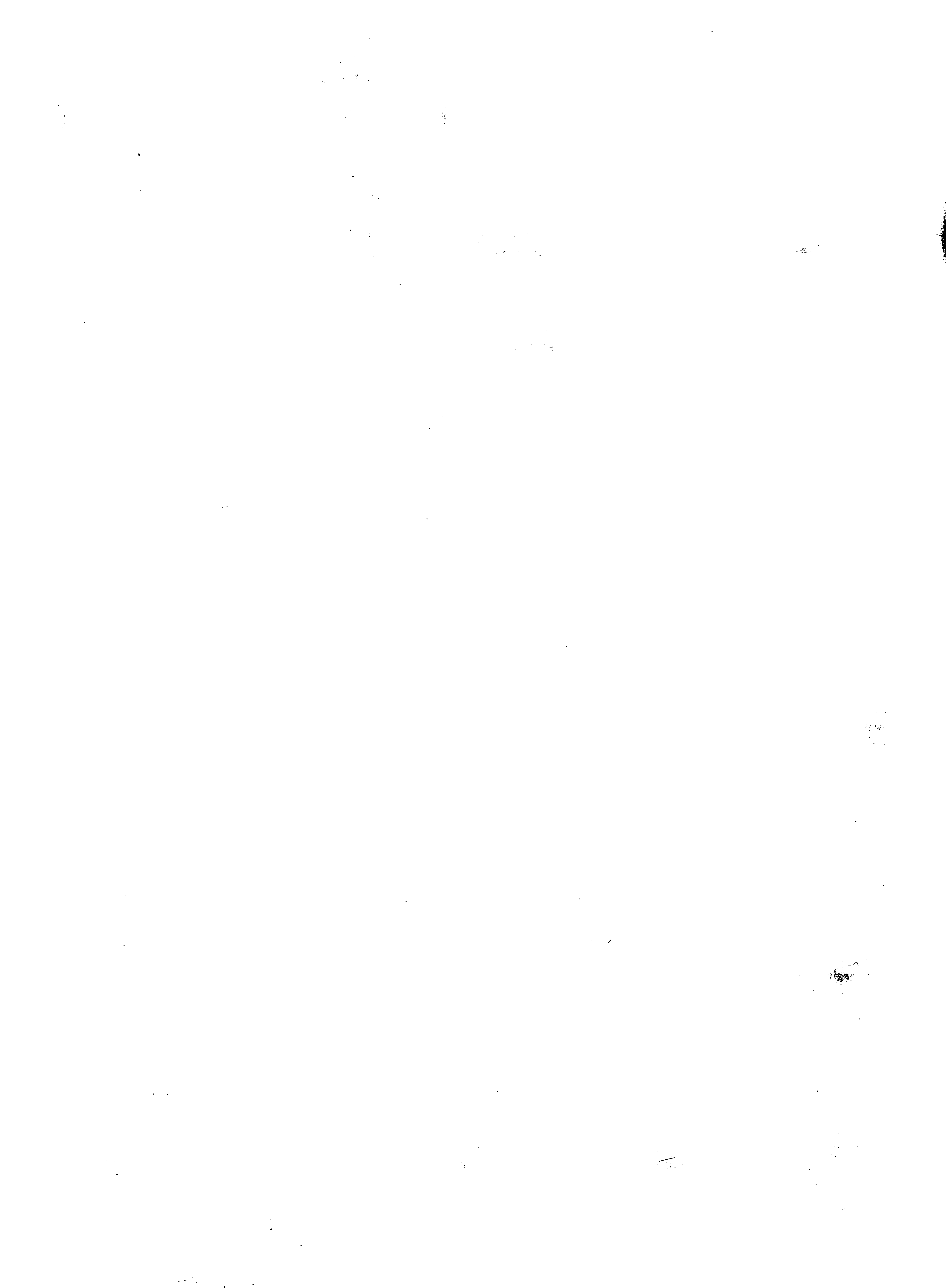
Medical Excuse Policy

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 special needs may register as voters at the Special Student Services Office in Willard, Room 100. All students are urged to take advantage of this convenient service and exercise their rights and duties as citizens by becoming registered voters.



ACADEMIC STANDARDS AND REGULATIONS

Susan Petrosino, *Registrar*
 Matthew R. Bielawa, *Associate Registrar for Operations*
 Maria Alvarez, *Associate Registrar for Scheduling and CAPP*
 Mariette Gimmartino, *Assistant Registrar for Information Management*
 Linda Thompson, *Assistant Registrar*
 Jane Gardner, *Acting Assistant Registrar*
 Phone: (860) 832-2236

Typical Program

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

A full-time student must carry a minimum of 12 credits per semester. Exceptions to this policy are permitted only for student's with documented disabilities.

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

Classification

Membership in a class is determined 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.

STUDENT INFORMATION

Performing

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

Religious

Christian Students at Central, Hillel Jewish Student Organization, Newman Club, Revival, The Search for Truth, Upside Down Club

Sports and Recreation

Central Car Club, Central Disc Club, Central Role Playing Group, Chess Club, Crew Club, Equestrian Club, Hang Gliding Club, Ice Hockey Club, Karate Club, Lacrosse Club, Lady Hooligans Women's Rugby Club, Men's Rugby Club, Men's Soccer Club, Outing Club, Paintball Club, Photography Club, Ski & Snowboard Club, Tae Kwon Do Club, Track and Running Athletic Club (TRAC), Volleyball Club, Women's Field Hockey Club

*These organizations are adjunct to University departments.

University Health Service

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

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

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

Treatments *requiring a nominal fee* include:

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

Full-time students are required to submit a completed health form (medical history, physical exam and up-to-date immunization record) one week prior to registration at the University. Part-time students are required by the University to have up-to-date immunization records for measles and rubella consistent with State of Connecticut Department of Health Service guidelines. Failure to submit the required medical information may result in the withholding of registration schedules, grades or housing assignments until the obligations have been met. The health form is available in the University Health Service, Marcus White Annex (832-1925).

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

The University Health Service is open Monday–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 special needs may register as voters at the Special Student Services Office in Willard, Room 100. All students are urged to take advantage of this convenient service and exercise their rights and duties as citizens by becoming registered voters.

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 77 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.

Second Degree Policy

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

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

A student who already holds a bachelor's degree from CCSU and wishes to complete a **second degree**, may do so by completing all curriculum requirements in effect

at the time of re-admission, with a minimum of 30 new credits. If all curriculum requirements are met, and the 30-credit minimum has not been attained, the remaining credits shall consist of additional directed electives chosen by the department. When these new degree requirements are met, *the student will be issued another diploma and will be entitled to participate in commencement ceremonies.*

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

Registration

Prerequisites — It is the students' responsibility to determine whether they have met prerequisites for a course. Students found to be lacking the prerequisites for a course may be administratively removed from a class at the request of the instructor. Course prerequisites are defined in the course description section of this catalog.

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

Dropping a Course — Students are allowed to drop courses up to the last day of the third week of classes during a regular semester. Courses dropped by the deadline do not appear on the student's transcript. Forms are available on the Registrar's 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 withdrawal 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 Prior to Midpoint form available on the Registrar's Web site at www.ccsu.edu/Registrar. Signatures indicating the recommendations of the instructor and chair of the department offering the course, as well as the approval of the dean of the school offering the course, will be required. If withdrawal is approved, a "W" will be recorded on the student's transcript. If a student stops attending and fails to withdraw officially from a course, a grade of "F" will be recorded on the student's transcript. In all cases of withdrawal, a "W" does not affect the student's grade-point average.

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

Audit Option — Full-time undergraduate students are permitted to audit courses, provided they are taking a minimum of 12 credits in addition to the courses audited. Part-time students need not meet this minimum requirement. Intent to audit a course

requires the written approval of the instructor and must be filed in the **Office of Registrar** in the first three weeks of the semester. Failure to meet the instructor's requirements for auditing may result in the student being withdrawn from the course. Courses taken on an audit basis do not affect grade point average and do not apply toward any graduation requirement. Refer to the Registrar's Web site at www.ccsu.edu/Registrar for further information.

Eligibility for Extra Courses — A full-time student may take 12 to 18 semester credits without special permission. A student who wishes to register for more than the customary semester program of academic work should apply in writing to the appropriate academic dean at least one week prior to registration for the semester in which the additional course is to be taken. Credit overload forms are available on the Registrar's Web site at www.ccsu.edu/Registrar. Students wishing to take 16-week courses along with student teaching must complete the credit overload form. Effective Fall 2003, in addition to the applicable tuition/required fees, full-time undergraduate students registering for *more than 18 credits* will be assessed **excess credit fees** of \$240 per credit for each credit beyond 18. These fees are *non-refundable* and will *not* be deleted if at a later time the total credits number less than 19.

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

Graduate Courses — Undergraduate students who have a cumulative average (GPA) of 3.00 or above and who have completed more than 90 semester hours of coursework may request permission to enroll in a 500-level course for which they have met all course prerequisites. Students are required to obtain written permission from their advisor, the course instructor, the chair of the department offering the course, and the Dean of 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 of a faculty member instructing a course. Academic evaluation of student performance requires expert consideration of cumulative information. Such decision-making by its nature is judgmental and evaluative. The evaluative process is not and should not be likened to the adversarial process involved in disciplinary matters, for academic grade determination is unadaptable to the methods of judicial or administrative decision-making. The education process, moreover, is not by nature adversarial, but rather centers upon a continuing relationship between faculty and student. Administrative interposition, except in the most extreme instances, is to be avoided. The University recognizes that in rare instances there may be errors, or "palpable injustice(s)" in determination of a final grade. A student alleging such error or palpable injustice, i.e., a clear showing of arbitrary or capricious action, may appeal as provided below:

1. **Initial Meeting with Instructor:** A student who believes a grade involved an error or a palpable injustice shall first confer with the instructor who awarded the grade in the

next regular semester no later than the first Monday of either October or March. Either the student or the faculty member may request that the initial meeting occur in the presence of the department chair. Should a student be unable to contact the instructor or not receive a decision within two weeks the student should make an appeal to the department chairperson.

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

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

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

a. Upon evidence of error, the chairperson may make the appropriate grade change after consultation with and approval of the dean of the school. The instructor

shall be notified of the change if notice subsequently can be delivered. The chairperson shall make a determination and provide written notification to the student within one month of the appeal.

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

5. **Appeal of Grade from Student's Final Semester:** When an appeal for grade change is made at the end of a student's final semester, the student may appeal to the department chairperson. If the instructor cannot be contacted before the grade deadline for graduation and where there is evidence of error, the chairperson may make the appropriate grade change after consultation with and approval by the dean of the school. The instructor shall be notified of the change if notice subsequently can be delivered. If the chairperson finds evidence of a palpable injustice, the case shall be referred immediately to the appropriate dean. In consultation with the chair and instructor, the dean shall make every attempt to resolve the appeal before graduation. If the appeal cannot be resolved before graduation, the dean shall proceed according to Step 3 above.

6. **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, clear 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:

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

b. 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. If the instructor disagrees or if the instructor's whereabouts are unknown, the Grade Appeals Review Board may recommend a 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 change.

c. 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.

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

7. **The Student's Rights and Responsibilities:**

a. Student's shall receive timely notification during all steps of the appeals process.

b. When appealing a grade, students must provide a full written account, attaching all corresponding documentation, in Step 2 above. Students will not have the opportunity to supplement an appeal once it has been filed.

8. **Faculty and Administration's Rights and Responsibilities:**

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

b. 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.

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

9. **The Grade Appeals Review Board:**

a. 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.

Originally Adopted by
the Faculty Senate
April 16, 1979

Revised by
the Faculty Senate
December 2, 2002

Acceptance of Non-Traditional Credit

Central Connecticut State recognizes that many valid learning experiences occur out-

side 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 ENG 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 108 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 77 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.

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 borrowed from another person, the source must be indicated. There are three ways in which another writer's material may appear:

1. By putting quotation marks around short passages borrowed verbatim (word for word); or by setting off from the text, without quotation marks, for longer quotations.
2. By *précis*; condensing part of a writer's argument.
3. By paraphrase: interpretation of a writer's ideas.

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

Consequences of Academic Misconduct

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

- The sanctions for academic misconduct available to a faculty member include any or all of the following:
 1. A grade of "F" for the course.
 2. A grade of "F" for the material being evaluated.
 3. A reduced grade for the material being evaluated.
 4. The assigning of additional course work.

When Undergraduate Students are Suspected of Academic Misconduct

1. When a faculty member reasonably believes that there is sufficient information to demonstrate that a student may have engaged in Academic Misconduct:
 - a. The faculty member will discuss the incident with the student, in the 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 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 (832-1780) or by going to Key Performance Indicators at <http://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, Bachelor of Science in Nursing, Bachelor of Science in Engineering Technology, Bachelor of Science in Education, and Bachelor of Science in Industrial Technology. A summary of these programs appears on the following pages of this section.

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

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

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

Requirements for Bachelor's Degree Programs

A total of 44–46 credits of General Education studies, not including the foreign language requirement, must be completed as part of all baccalaureate degree programs. Nine credits must be taken in Study Area I, nine credits in Study Area II, six credits in Study Area III, six–seven credits in Study Area IV, six credits in Skill Area I, six credits in Skill Area II, up to six credits in Skill Area III, and two–three credits in Skill Area IV. See the General Education section following.

A major, or primary field of study, is required of all students. Certain majors, leading to the B.S. degree, are certifiable for teaching by the Connecticut State Department of Education. Other B.S. programs are not certifiable. B.A. majors in the liberal arts program are not certifiable for teaching. Requirements for the majors are listed individually under the appropriate schools. Students who change their major or declare a new major should consult with the chair of the department of the new major or an assigned advisor within that department regarding major requirements.

Students are required to complete the major requirements that are in place as of the date of their declaration.

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

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

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

Please see the Undergraduate Field of Study Chart on page 51 for a complete listing of credits required for each degree.

Official Certificate Programs

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

General Education

In addition to offering baccalaureate degrees, the University aims to provide students with the basic foundations for 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. 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 47 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.¹ Students who have not completed ENG 110 prior to earning 61 credits are required to take both ENG 110 and ENG 202.

II. Mathematics 6 credits

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

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

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

b) Elementary proficiency as demonstrated by successfully completing a second-semester-level CCSU foreign-language course (112), 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 120); students who place out of 111 due to previous background in the language may satisfy the requirement by taking 112 only.

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

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

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

IV. University Requirement 2–3 credits

Courses designed to foster personal well being and the development of academic skills essential for the successful pursuit of a university education. PE 244 (Fitness/Wellness Ventures) 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 will appear at the start of the Course section of this catalog.

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

¹An acceptable CCSU English Placement Test score or an appropriate equivalent is required to be eligible for ENG 110. Refer to Skills Testing and Remediation Policy. The requirement of ENG 110 may be waived for a

student by the English Department, but the 6-credit requirement will not be reduced.

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

International Requirement. In view of the increasing relevance of the global context to the future of our students, and their need for greater understanding of the world around them, each student must complete 6 credits in courses designated as "International" [I]. Such courses shall be defined as ones: 1) dealing with a country or region other than the United States; 2) involving the comparative study of two or more countries or regions, one of which may be the United States; 3) that focus upon global themes; or 4) any foreign language course at the 112 level or higher. International courses are indicated by [I] at the end of their course descriptions, which begin on page 111 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.

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.**

Computer Usage

Courses with the letter [c] may have **computer use activity** in some or all sections and may require a CCSU computer account.

International Courses

Courses with the letter [I] have been designated as fulfilling the **international component** of the General Education requirements. See page 46.

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 46.

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 46.

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
- ENG 203 World Literature I [I] [L]
- ENG 204 World Literature II [I] [L]
- ENG 205 British Literature I [I] [L]
- ENG 206 British Literature II [I] [L]
- ENG 210 American Literature I [L]
- ENG 211 American Literature II [L]
- ENG 212 African-American Literature [L]
- ENG 215 Introduction to Women Writers [I] [L]
- ENG 220 Shakespeare [I] [L]
- ENG 250 Contemporary Literature [L]
- ENG 260 Introduction to Poetry [L]
- ENG 261 Introduction to Fiction [L]
- ENG 262 Introduction to Drama [I] [L]
- ENG 288 Studies in Literature [L]
- FR 302 Masterpieces of French Literature [I] [L]
- GER 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]
- 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 [I]
- PHIL 100 Search in Philosophy
- PHIL 112 Introduction to Philosophy
- PHIL 121 Introduction to Philosophy through Literature
- PHIL 135 Nature, Mind, and Science
- PHIL 144 Moral Issues
- PHIL 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]
- 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]
 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]
 GER 315 German Civilization to 1800 [I]
 GER 316 German Civilization from 1800 to Present [I]
 HIST 100 Search in History
 HIST 121 World Civilization I [I]
 HIST 122 World Civilization II [I]
 HIST 142 Western Civilization I [I]
 HIST 143 Western Civilization II [I]
 HIST 231 Ancient Civilization [I]
 HIST 232 Medieval Civilization [I]
 HIST 261 History of American Life I
 HIST 262 History of American Life II
 HIST 351 East Asia to 1800 [I]
 HIST 352 East Asia Since 1800 [I]
 HIST 375 History of Africa to 1800 [I]
 HIST 376 History of Africa Since 1800 [I]
 HIST 381 Latin American History to 1823 [I]
 HIST 382 Latin American History Since 1823 [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 & 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 and 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
 COMM 215 Intro. to Interpersonal Communication
 COMM 230 Introduction to Mass Media
 CRM 133 Law Enforcement & Society
 CRM 220 Ideology & Violence
 CRM 245 Diversity and Criminal Justice
 HON 220 Science and Society II: Social Sciences and Society
 HON 250 Western/World Culture III: Comparative Topics [I]
 IS 226 Intercultural Sensitivity [I]
 LING 200 Introduction to Linguistics
 LING 230 The Study of Language
 PSY 112 General Psychology I
 PSY 125 Environment & Behavior
 PSY 200 Learning & Memory
 PSY 236 Life-Span Development
 PSY 241 Introduction to Health Psychology
 PSY 281 Cognitive Psychology
 SOC 110 Introductory Sociology
 SOC 111 Social Problems
 SOC 212 Race, Class, and Gender
 SOC 233 The Family
 SOC 240 The Sociology of Gender
 URS 300 Introduction to Urban Studies
 WS 200 Introduction to Women's Studies

STUDY AREA IV

ANTH 265 Human Evolution
 BIO 100 Search in Biology
 BIO 101 Search in Biology with Lab
 BIO 111 Introductory Biology
 BIO 113 Laboratory Experience in Biology
 BIO 120 Plants of Connecticut
 BIO 121 General Biology I
 BIO 122 General Biology II
 BIO 132 Introductory Ecology
 BIO 133 Laboratory in Introductory Ecology
 BIO 150 Long Island Sound—Introductory Ecology
 BIO 170 Introductory Field Studies in Biology
 BIO 211 Concepts in Biology
 BMS 100 Search in Biomolecular Sciences
 BMS 101 Search in Biomolecular Sciences with Lab
 BMS 102 Introduction to Biomolecular Science
 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 121 General Chemistry I
 CHEM 122 General Chemistry II
 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 218 Women's Contributions to Stellar and Galactic Astronomy
 ESCI 278 Observational Astronomy
 ET 241 Applied Statics and Strength of Materials
 GEOG 272 Physical Geography
 GEOG 275 Soils and Vegetation
 HON 120 Science & Society I
 ISCI 104 Science Connections
 ISM 211 Biological & Physical Sciences Integrated with Mathematics
 PHYS 111 Introductory Physics I
 PHYS 113 The Sound of Music
 PHYS 121 General Physics I
 PHYS 122 General Physics II
 PHYS 125 University Physics I
 PHYS 126 University Physics II
 SCI 117 Physical Science

SKILL AREA I

COMM 115 Fundamentals of Communication
 COMM 140 Public Speaking
 COMM 280 Business and Professional Speaking
 ENG 110 Freshman Composition
 ENG 202 Intermediate Composition
 ENG 235 Journalism I
 ENG 236 Journalism II
 ESL 108 English as a Second Language: Writing I
 ESL 109 English as a Second Language: Writing II
 ESL 201 Advanced Study in English as a Second Language
 HON 140 Writing & Research I
 HON 441 Writing & Research III
 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 Computer Programming
 ISM 213 Math Integrated with Biological and Physical Sciences
 MATH 105 Fundamentals of Mathematics
 MATH 110 Finite Mathematics
 MATH 113 Structure of Mathematics I: Number Systems
 MATH 115 Trigonometry
 MATH 119 Pre-Calculus with Trigonometry
 MATH 121 Pre-Calculus Mathematics
 MATH 123 Applied Business Mathematics
 MATH 124 Applied Calculus with Trigonometry
 MATH 125 Applied Calculus
 MATH 135 Applied Engineering Calculus I
 MATH 136 Applied Engineering Calculus II
 MATH 152 Calculus I
 MATH 213 Structure of Mathematics II: Probability & Geometry

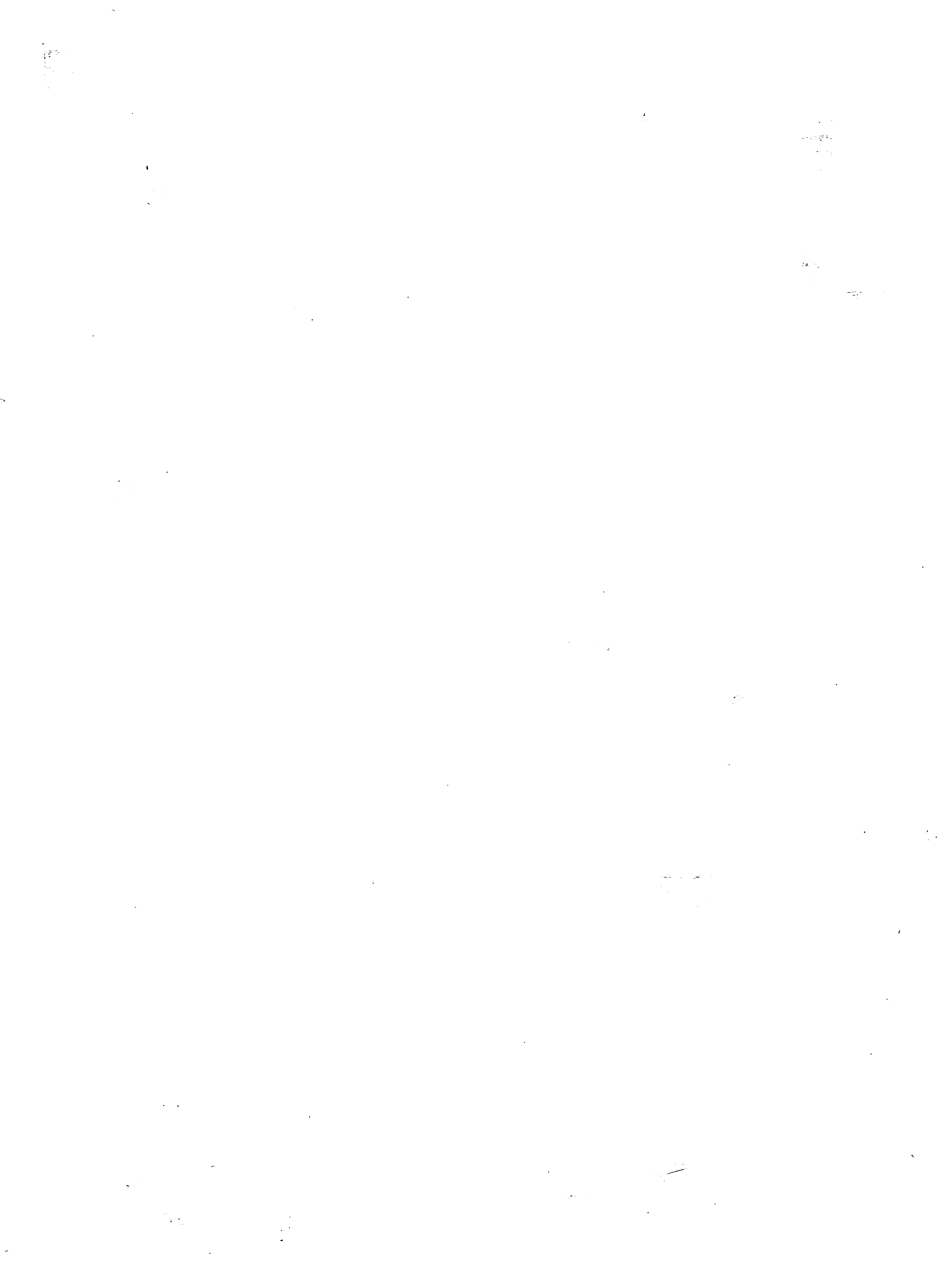
MATH 221 Calculus II
 STAT 104 Elementary Statistics
 STAT 108 Introduction to Biostatistics
 STAT 200 Business Statistics
 STAT 215 Statistics for Behavioral Sciences I
 STAT 216 Statistics for Behavioral Sciences II

SKILL AREA III

CHIN 111 Elementary Chinese I
 CHIN 112 Elementary Chinese II [I]
 CHIN 125 Intermediate Chinese I [I]
 CHIN 126 Intermediate Chinese II [I]
 FR 111 Elementary French I
 FR 112 Elementary French II [I]
 FR 125 Intermediate French I [I]
 FR 126 Intermediate French II [I]
 FR 151 French for Reading Knowledge [I]
 FR 225 Essential Skills in French I [I]
 FR 226 Essential Skills in French II [I]
 FR 261 Business French [I]
 GER 111 Elementary German I
 GER 112 Elementary German II [I]
 GER 125 Intermediate German I [I]
 GER 126 Intermediate German II [I]
 GER 225 German Composition & Diction [I]
 GER 226 German Structure and Idiom [I]
 ITAL 111 Elementary Italian I
 ITAL 112 Elementary Italian II [I]
 ITAL 118 Intensive Elementary Italian [I, 3
 credits only]
 ITAL 125 Intermediate Italian I [I]
 ITAL 126 Intermediate Italian II [I]
 ITAL 190 Italian for Italian Speakers [I]
 ITAL 225 Italian Composition and Diction [I]
 ITAL 226 Italian Structure and Idiom [I]
 ITAL 260 Introduction to Business Italian [I]
 JAPN 111 Elementary Japanese I
 JAPN 112 Elementary Japanese II [I]
 JAPN 125 Intermediate Japanese I [I]
 JAPN 126 Intermediate Japanese II [I]
 JAPN 225 Japanese Composition and Diction [I]
 JAPN 226 Japanese Structure and Idiom [I]
 LAT 111 Elementary Latin I
 LAT 112 Elementary Latin II
 POL 111 Elementary Polish I
 POL 112 Elementary Polish II [I]
 POL 125 Intermediate Polish I [I]
 POL 126 Intermediate Polish II [I]
 SPAN 111 Elementary Spanish I
 SPAN 112 Elementary Spanish II [I]
 SPAN 118 Intensive Elementary Spanish [I, 3
 credits only]
 SPAN 123 Basic Spanish Review [I]
 SPAN 125 Intermediate Spanish I [I]
 SPAN 126 Intermediate Spanish II [I]
 SPAN 128 Intensive Intermediate Spanish I [I]
 SPAN 190 Spanish for Spanish Speakers I [I]
 SPAN 191 Spanish for Spanish Speakers II [I]
 SPAN 225 Intermediate Spanish III [I]
 SPAN 226 Intermediate Spanish IV [I]
 SPAN 261 Business Spanish [I]
 SPAN 290 Spanish for Spanish Speakers III [I]
 SPAN 291 Spanish for Spanish Speakers IV [I]

SKILL AREA IV

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
 ET 150 Intro. to Engineering Technology
 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
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits	
Accounting	BS		Yes***
Actuarial Science (Math. Sci.)	BA		
Anthropology	BA		Yes
Art**	BA	BS	Yes
Athletic Training	BS		
Biochemistry	BS		
Biology**	BS	BS	Yes
Biomolecular Sciences**	BS		Yes
Chemistry**	BS	BS	
Communication	BA		Yes
Computer Engineering Technology	BS (124 credits)		
Computer Science	BS (Honors)/BS (Alt.)		Yes
Construction Management	BS		
Criminal Justice			Yes
Criminology	BA		
Earth Sciences	BS	BS	Yes**
Economics**	BA		Yes
Education*			
Early Childhood Education		BS	
Elementary Education		BS	
Secondary Education			
Biology		BS	Yes
Chemistry		BS	Yes
Earth Sciences		BS	Yes
English		BS	Yes
French		BS	Yes
General Science		BS	Yes
German		BS	Yes
History		BS	
Italian		BS	Yes
Mathematics		BS	Yes
Physics		BS	Yes
Social Sciences		BS	
Spanish		BS	Yes
NK-12			
Art Education		BS	
Music Education		BS	
Physical Education		BS	
Technology Education		BS	
Special Education****		BS	

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

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

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

***May not minor in a business discipline.

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



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

The School of Arts and Sciences offers programs leading to the bachelor of arts degree, the bachelor of science degree, and the bachelor of fine arts 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

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

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

The Anthropology major at the University provides students with a broad social and behavioral science background and prepares the student for a range of

careers, from public service to marketing and international management. The department also offers minors in cultural anthropology, archaeology, practicing anthropology and biological anthropology. These programs give the student a holistic and cross-cultural perspective to complement most majors.

The Anthropology Department has a number of special programs and resources. An annual summer archaeological field school provides experience in archaeological excavation and analysis. The microfiche and on-line Human Relations Area Files in the Burritt Library Serials Department is an easy-to-use system for cross-cultural research. There is also an extensive collection of human skeletal materials and fossil casts for education in biological anthropology. Extensive internship opportunities and summer field schools in cultural anthropology are also available.

Major in Anthropology, B.A.

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

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

Minor in Anthropology

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

Minor in Archaeology

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

Minor in Biological Anthropology

18 credits including ANTH 160, 265, 345, 365 and 465, and three credits of minor-related electives. For students majoring in Anthropology, three credits of this minor may be applied to the major.

Minor in Cross-Cultural Analysis

18 credits including ANTH 170, 200, 430. Two courses from ANTH 352, 422, 424, 426, 428 or 475 (if devoted to a specific world area). One additional course approved by an advisor. For students also majoring in Anthropology, three credits of this minor may be applied to the major.

Minor in Practicing Anthropology

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

Art

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

The Art Department offers two degree programs, a B.S. in Art Education for students who wish to pursue a career in teaching art and a B.A. in Art which provides students with options in studio areas, such as ceramics, graphic 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 B.A. program have been accepted in nationally known M.F.A. programs, and our B.S. 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.

Major in Art, B.A.

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 which includes a minimum of 9 sequences credits in one area. Art majors must complete 15 credits in courses at the 300-level or above.

Directed Electives of Minor (18 cr.):

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 B.A. in Art majors.

Major in Art Education, B.S. (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 B.S. in Art Education students.

A Portfolio Review is required of all B.S. 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 pro-

ceed on to a 300-level (or higher) studio course without a successful portfolio review.

Minor in Art

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

Biology

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

The Biology Department 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.

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

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

(a) **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, MATH 124, or MATH 125 and 115; CHEM 121, 122, 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.

(b) **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, 321, 322, 326, 327, 420, 425, 444; any advanced courses in the E/B/E Group (see list below). In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 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

Course		Credits
BIO 302	Evolutionary & Ecological Genetics	3
BIO 315	Microbial Ecology	4
BIO 321	Marine Invertebrate Zoology	4
BIO 322	Vertebrate Zoology	4
BIO 326	Mushrooms, Mosses & More	4
BIO 327	Vascular Plants	4
BIO 405	Ecology	4
BIO 410	Ecological Physiology	4
BIO 420	Ornithology	4
BIO 425	Aquatic Plant Biology	4
BIO 434	Ecology of Inland Waters	4
BIO 436	Environmental Resources and Management	3
BIO 438	Aquatic Pollution	4
BIO 440	Evolution	3
BIO 444	Plant Taxonomy	3
BIO 470	Field Studies in Biology	1–4

BIO 480	Animal Behavior	3
BIO 481	Skeletal Biology	4
BIO 488	Animal Behavior Laboratory	2
BIO 489	Vertebrate Dissection	2
BIO 490	Topics in Biology**	3–4
BIO 491	Advanced Studies in Biology**	1–3
BIO 499	Undergraduate Thesis in Biology**	1

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

(c) 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, 321, 322, 326, 327, 420, 425, 444, one of BIO 410, 412/413, 449/450; either BIO 405 or 434. In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 210, 211, 212, 213, 301, 406; either ESCI 121/123 or 450; and PHYS 121, 122 are also required.

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

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

37 credits in Biology as follows: BIO 121, 122, 200, 290, 390; one of BIO 321, 322, 420, 481; one of BIO 326, 327, 425, 444; one of BIO 302, 315, BMS 306, 316; one of BIO 318, 319, 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 121, 122, 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 Biological Sciences are required to complete a Student Portfolio. Minimally, the Student Portfolio must include a current resume, a current Student Graduation Evaluation (available from the Biology Department) or transcript, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, and writing samples from one or more upper-level courses in the major. To fulfill the Portfolio Requirement in 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 Biology Department 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 121 are required. Those with a major in any other discipline should consult with the department chair about the specific requirements for the minor.

Major in General Science with Specialization in Biology, B.S.

(Acceptable for certification in elementary education)

39–42 credits. For course listing, see major in General Science, page 66.

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, 321, 322, 326, 327 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, B.S.

53–57 credits. For course listing, see major in General Science, page 66.

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.

Chemistry

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

The Department of Chemistry 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 Chemistry Department provides undergraduate and graduate courses in the five major areas of chemistry (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry). The Department offers the following B.S. 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 832-2675.

Major in Chemistry, B.S. (American Chemical Society accredited)

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

47 credits in Chemistry, as follows: CHEM 121, 122, 210, 211, 212, 213, 301, 313, 316, 321, 322, 402, 454, 460, and 461; two credits of CHEM 432 are also required for graduation. Students must also complete PHYS 125 and 126, and MATH 152 and 221. The student must also complete 8 credits from the following approved list: BIO 121 or higher, BMS 102 or higher, PHYS 220 or higher, ESCI 121 or higher, or MATH 222 or higher. Computer literacy and experience in the use of chemical literature are recommended. For students contemplating graduate study, a year of German or Russian is recommended. No minor is required.

Major in Biochemistry, B.S.

The B.S. 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 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 101 in this catalog.

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

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

36 credits in Chemistry, as follows: CHEM 121, 122, 210, 211, 212, 213, 301, 321, 322, 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 1 credit of science electives approved by the chair.

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

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

Minor in Chemistry (Non-Teaching)

21 credits in Chemistry, including CHEM 121, 122, 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 121, 122, 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 Chemistry Department.

Communication

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

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

Major in Communication, B.A.

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: (1) **broadcast journalism** (for students interested in careers in radio, television, or film); (2) **media studies** (for students who want to gain a better understanding of the systems and institutions distributing mediated information in society); (3) **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 (4) **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 six 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

J. M. Calvert, *Chair*; F. Abdollahzadeh, M. Friedman, B. Kjell, S. Kurkovsky, Z. Markov, B. O'Connell, I. Pevac,

R. Rajaravivarma, N. Zlatareva (*Dept. phone 832-2710*)

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

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

In addition to the regular course work, CS majors may participate in the Cooperative Education program. This program, open to juniors and seniors, allows the student to put her/his skills to use in a real-life setting, receiving academic credit for work in a real-world environment.

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

Major in Computer Science, B.S. (Honors) (Non-Teaching) (CAC/ABET-accredited)
64 credits. Core (18 credits): CS 151, 152, 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): Selected, in consultation with an advisor, from those not selected from Advanced Area Courses or Advanced Directed Electives or from CS 290, 300, 301, 398, 407, 498, 499. Mathematics and statistics (15 credits): MATH 152, 221, 218, and STAT 315.

Science (9 credits): PHYS 338 plus one of the following sequences: BIO 121 and 122 or CHEM 121 and 122 or ESCI 121 and 122, or PHYS 125 and 126. Majors must also take PHIL 245 and an additional 6 credits in science.

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

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

Major in Computer Science, B.S.

(Alternative) (Non-Teaching)

38 credits as follows: 30 credits of Computer Science courses, including CS 151, 152, 153, 253 and 254, and 15 elective credits selected in consultation with an advisor. No other CS course numbered below 210 can be counted for this major. 8 credits in mathematics: MATH 152 and 218. This alternative major may be completed in as few as four semesters and allows the student to complete requirements for a minor.

Minor in Computer Science

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

Criminology and Criminal Justice

S. Cox, *Chair*; M. Atherton, K. Bantley, A. Cares, J. Coon, R. Fernandez, J. Hedlund, D. Mitchell, S. Ratansi, R. Tafrate (*Dept. phone: 832-3005*)

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.

Major in Criminology, B.A.

39 credits as follows: CRM 110, 133, 238, 231, 300, 301, 322, 435, and 15 credits of electives (12 of which must be at the 300- or

400-level). Also, students must take PHIL 144 in Study Area I and either STAT 104, STAT 200 or STAT 215 in Skill Area II.

Program Admission/Requirements

First year students and all incoming students will be advised by the Department of Criminology and Criminal Justice as pre-criminology majors prior to full program admission. Students seeking full admission to the B.A. Criminology degree program must meet the following requirements:

- complete and receive a "C-" or better in CRM 110, CRM 133, CRM 231, and CRM 238 before taking CRM 301;
- complete and receive a "B" or better in CRM 301.

Minor in Criminal Justice

18 credits as follows: CRM 110, 133, 231, 238, 300, and 301 (or one 200-level elective). Students minoring in Criminal Justice are urged to consult an advisor in the Criminology and Criminal Justice Department.

Design (Graphic/Information)

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

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

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

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

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

Program Admission/Requirements:

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

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 B.A. Graphic Information Design degree program must meet the following qualifications:

- complete nine credits at CCSU
- overall GPA of 2.50 strongly recommended. Student must be in good academic standing.
- 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.

Major in Graphic/Information Design, B.A.

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 six credits of design-designated coursework per semester without approval of advisor and department chair.

Economics

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

Major in Economics, B.A.

30 credits, including ECON 200, 201, 300, 305 and 310. Three credits toward the 30 credits will be granted for either GEOG 244 or HIST 465. In addition the student must take MATH 125 and STAT 104, PHIL 220 or MIS 201.

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

57 credits of Economics and related courses, including ECON 200, 201, 305, 460, 485, MATH 470, CS 151; and either ECON 300, 310, 311, MATH 125, 136 (signature of chair of Dept. of Mathematical Sciences required for admission), STAT 215, 216 (total 21 credits) or ECON 300, 310, 311, MATH 121, 152, 221, 222 and STAT 315, 416 (total 27 credits). The remaining 9 or 15 credits may be elected from Economics courses acceptable for the B.A. Economics major (ECON 470 strongly recommended), MATH 110, STAT 455, 456, CS 151, 254, 473; at least two of these courses must be labeled Economics.

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

Minor in Economics

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

English

G. Gigliotti, *Chair*; S. Barnett, C. Barrington, A. Cannella, D. Cappella, M. Ciscel, S. Cohen, R. Dowling, C. Doyle, R. Dunne, B. Folker, J. Geller, S. N. Gilmore, 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, J. K. Weinberger, L. Zidani-Eroglu (*Dept. phone 832-2740*)

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

Major in English, B.A.

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

Major in English, B.S. (Appropriate for certification in secondary education) 43 credits in English, as follows: ENG 205, 206, 210, 211, 402, 420 (to be taken concurrently with EDSC 425), 435 (to be taken concurrently with EDSC 435) and 492; LING 200 or 400.

In addition, 18 credits on the 300-400 level* as follows:

1) Four courses (12 credits) in British literature, one in each of the following areas: I. 700-1660 A.D., II. 1660-1900, III. 1900-Present, IV. Major figure (Chaucer, Shakespeare, Milton). All students must take at least one Shakespeare course, in Area I if not in Area IV;

2) Two courses (6 credits) in American literature, including ENG 449. Also, RDG 440, SPED 315, EDTE 316, EDSC 425, EDSC 435, and EDF 415 are required for certification.

*There is one exception to this statement that the remaining credits must be on the 300-400 level. ENG 220 may be taken as fulfillment of the appropriate area requirement. Also, if a student takes two major figure courses, the second may count as an area fulfillment: Chaucer or Shakespeare for Area I,

Milton for Area II. All studies courses (ENG 448, 458, 449, and 488) may be taken twice under a different topic.) Further substitutions within area requirements are permitted only with prior approval of the advisor and the department chair.

Major in English, B.S. (Appropriate for certification in elementary education)

39 credits as follows:

Core (24 credits): ENG 205, 206, 210, 211, 491, 492; LING 200, 300.

Composition Sequence (6 credits): either, Expository: ENG 202 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.

For certification in elementary education, primary subject matter area in English:*

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

Minor in English

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

Minor in Writing

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

Minor in 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 three of the following— LING 312, 313, 400, 430, 431; SOC 322; ANTH 170, 352.

Minor in Language and Computation

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

Complementary Subject Matter Area in English/Linguistics*

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

Complementary Subject Matter Area in English/Writing*

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

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

Geography

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

The Geography Department is concerned with the science of location. Geography faculty teach students to use maps, air photos, computers and information about places to understand how people use the land they live on and what makes that land different from other areas. Geography students learn about the nature of places, human impacts on environment and the proper use of the land. Career opportunities include travel and tourism, environmental protection, urban, regional and transportation planning, map making, area studies and computer applications. The department also provides internships for students in a variety of town, regional, state and private agencies and offers consulting services, workshops and short courses as part of its outreach program.

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

39 credits in Geography, as follows:

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

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

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

General/Regional: GEOG 110 or 120; GEOG 130; fifteen credits of Geography electives (at least nine at the 400-level); three credits from GEOG 270, 272, 275, 374, 433, 472, 473; three credits from GEOG 220, 223, 244, 290, 291, 451, 453, 454, 455, 470; three credits from GEOG 241, 439, 440, 441, 445, 450, 483; three credits from GEOG 256, 266, 276, 378, 442; six

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 three-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, B.A.

39 credits as follows: GEOG 110, 130, 241, 244, 420, 439, and 441; twelve credits from GEOG 433, 440, 445, 450, 473, or 483; six 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 six at the 300- or 400-level) from GEOG 256, 266, 276, 466, 476, 478, 479, ETC 458. For Geography majors, three 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, B.S. (Acceptable for secondary certification in social studies)

56 credits distributed as follows:

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

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

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

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

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

Note: Geography is not a certifiable subject in Connecticut. Those who wish to teach the subject at the secondary level in the state should complete this major.

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 six credits in geography electives (at least three of which must be at 400 level). All education students selecting geography as a complementary subject matter area will also enroll in GEOG 414; Elementary-level (1-6) students will enroll for 3 credits and

may use the course as one of the two geography electives. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

History

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

Major in History, B.A.

39 credits in History as follows: HIST 121 or 142 and HIST 122 or 143; HIST 261 and 262; HIST 301 or HIST 310 (taken prior to, or concurrently with, first 400-level history course); HIST 490 (taken after 24 credits of History courses, including HIST 301 or 310 and 6 credits of History courses at 400-level); 12 credits in the primary area of concentration; 6 credits in the secondary; and 3 credits of elective. History majors must complete 12 credits in 400-level courses. All History majors must take at least one course dealing with the non-western world. This requirement may be met through a course within an area of concentration or through an elective. The areas of concentration are: Ancient and Medieval, Medieval and Modern Europe, United States, East Asia and Pacific Rim, Africa and the African Diaspora, Latin America, and Public History.

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

Major in History, B.S. (Certifiable for secondary teaching of history and social studies)

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

at least one course dealing with the non-western world.

12 credits must be completed in 400-level history courses. One course dealing with the non-western world, selected from the current state list, must also be completed. The areas of concentration in the major areas are: Ancient and Medieval, Medieval and Modern Europe, United States, East Asia and Pacific Rim, Africa and the African Diaspora, Latin America, and Public History.

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

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

No minor is required of students in this major.

Major in History, B.S. (Certifiable for elementary education)

39 credits in History as specified under the major in History, B.A. For additional course requirements in Education consult with the School of Education and Professional Studies.

Minor in History

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

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

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

Mathematical Sciences

T. V. Craine, *Chair*; F. Bensics, R. Bilisoly, N. Castaneda, Y. Chen, R. Crouse, D. Dzuida, I. Gotchev, S. L. Gould, P. Halloran, C. Jin, R. S. Kalder, D. J. Kelly, D. T. Larose, S. Lesik, E. Makover,

J. McGowan, A. Miller, D. S. Miller, M. Mitchell, N. Padma, L. Paoletti, L. Recoder-Núñez, T. Roman, K. Saha, C. D. Smith, C. Waiveris (*Dept. phone 832-2835*)

Major in Mathematics, B.A.

38 credits in Mathematics and related courses, including MATH 152, 218, 221, 222, 228, 366 and 377. The remaining 10 credits may be selected from MATH 300, 320, 398, 440, 463, 468, 469, 470, 477, 491; STAT 315, 416, 425, 455, 456, 465, 476; ACTL 465, 480, 481, 482. In addition, two laboratory science courses are required.

Note: CS 151 is strongly recommended.

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

58 credits in Mathematics and related courses as follows.

Core (40 credits): MATH 152, 218, 221, 222, 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; STAT 321.
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, B.A.

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; two courses chosen from STAT 321, 322, 323, 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, 463, 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, B.S. (Certifiable for secondary teaching)

48 credits in Mathematics as follows: MATH 120, 152, 218, 220, 221, 228, 313, 320, 323, 327, 328, 366, 411, 413, 426;

STAT 314; 5 credits of either Mathematics and/or Statistics electives as approved by faculty advisor.

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

In addition, the student is required to take CHEM 121 and 122 or PHYS 125 and 126 and either CS 151 or 213. No minor is required for students with this major. A plan of study listing the Mathematics/Statistics courses to be taken to complete the major requirements must be approved by the student's major advisor and filed with the advisor and the department chair prior to the student's acceptance into the Professional Program in Teacher Education. In addition, students must take SPED 315, EDTE 316, RDG 440, EDF 415, EDSC 425 and EDSC 435.

Major in Mathematics, B.S. (Certifiable for elementary teaching)

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

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

Minor in Mathematics (For students completing secondary certificates)

18–19 credits in Mathematics as follows: MATH 152, 218, 221, either MATH 228 or 366, and STAT 314.

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

Minor in Mathematics (Non-Teaching)

19–20 credits in Mathematics, as follows: MATH 152, 218, 221, 222, 228 or 366.

Minor in Mathematics (For B.S. Physics Majors)

18–19 credits in Mathematics as follows: MATH 218, 221, 222, 463 and either MATH 228 or 491.

Minor in Statistics

21 credits, including STAT 215, 216, CS 151; three courses chosen from MATH 110, 470, STAT 455, 456, 465, 476; one course chosen from the courses listed above or CS 473; BIO 405; ECON 460, 485; GEOG 476; PSY 222, 451.

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

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

Admission criteria: Approval of the Department of Mathematical Sciences.

Required courses (12 cr):

STAT 321, 322, 323 and CS 290.

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

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

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

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

Modern Languages

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

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

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

Major in Spanish, B.A.

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

Major in French, German, Italian, B.S.
(Certifiable for secondary teaching)

36 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 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, B.S. (Certifiable for secondary teaching)

36 credits as follows: SPAN 125, 126, 225, 226 for non-native speakers or SPAN 190, 191, 290 and 291 for native speakers; SPAN 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 454; GEOG 435.

LANGUAGE PLACEMENT EXAMINATION

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

The Department of Modern Languages tests achievement levels in 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

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

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

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

Major in Music, B.A.

60 credits as follows:

Core (25 credits):

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

Specialization (35 credits): either

1. Performance: MUS 178, 278, 378, 478 (14 cr.); MUS 140 or 141 or 142 or 143 (10 cr.); MUS 367, 380 or 401, 400, 404

2. Theory and Composition: MUS 177 or 178, 278, 378, 478 (14 cr.); MUS 141 or 142 or 143 (2–6 cr.), MUS 140 (0–4 cr.); MUS 295, 367, 380, 390, 395 or 405, 400

3. Jazz Studies: MUS 178, 278, 378, 478 (14 cr.); MUS 140 (8 cr.); MUS 213, 363, 364, 380, 400

4. General Studies: MUS 250 and 251 or pass piano proficiency exam (0–4 cr.); MUS 178, 278, 378, 478 (12 cr.); MUS 367 (2 cr.); MUS 141 or 142 or 143 (8 cr.); electives (9–13 cr.).

Major in Music Education, B.S.

(Certifiable for K–12 teaching)

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

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

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

Note: This major does not require a minor.

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

All music majors are required to enroll in MUS 090 every semester except while

enrolled in either EDSC 420/421 or MUS 400.

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

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

The piano proficiency exam may be taken a total of four times, and students must demonstrate a minimum of proficiency in each category to pass. Most students should begin taking this exam during their sophomore year. Three categories of the exam must be passed before acceptance into the Professional Program. All of the exam must be passed before beginning student teaching.

The piano proficiency exam consists of the following:

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

Minor in Music

Students planning to minor in Music must consult the department chair for 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, 350, 351, 363, 364, 380

Area III: 4–5 credits from MUS 140, 141, 142, 143, 177

Philosophy

J. McKeon, *Chair*; D. Adams, F. Best, D. Blitz, P. English, E. Godway, A. P. Iannone,

J. VanRiper (*Dept. phone 832-2915*). Cross appointed: B. O'Connell (Computer Science)

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

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

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

Major in Philosophy, B.A.

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

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

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

(b) **African, African-American and Asian Philosophy:** AFAM 110, PHIL 250, 260, 275, 360, 376

(c) **Logic and Philosophy of Science:** PHIL 135, 235, 320, 335

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

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

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

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

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

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

Minor in Philosophy

Eighteen (18) credits as follows:
PHIL 112, 220, 290, either 230 or 330, and 6 credits of PHIL or REL electives listed in the specializations for philosophy majors (at least 3 credits of 300-level or higher).

Physics and Earth Sciences

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

Located in Copernicus Hall, the facilities of the Physics and Earth Sciences Department include numerous introductory and intermediate/advanced laboratories as well as two teaching laboratories, an observatory containing a 16-inch telescope, a 100-seat planetarium, a 400-kv Van de Graaff linear accelerator, an ion implanter and a fully-equipped weather center which includes a National Weather Service Digital Computer Facsimile System, a rooftop satellite data retrieval system and a fully operational color weather radar monitoring system.

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

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

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

The department plans to offer a B.S. 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.

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

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

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

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

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

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

Minor in Physics (Certifiable for secondary teaching) Subject to change.
18 credits in Physics, including: PHYS 125,

126, 220 and 250, and 6 credits of Physics electives. In addition, a student must take CHEM 121 and 122, MATH 152, 221, 222 and SCI 417.

Major in Earth Sciences, B.S. (Certifiable for secondary teaching)
30 credits in Earth Sciences, including ESCI 121, 122, 129, 178 or 179, 430, and other electives as approved by faculty advisor. In addition, the student must take CHEM 121, 122; PHYS 121, 122; BIO 121, 122; EDTE 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, B.S. (Acceptable for certification in elementary education)
39–42 credits. For course listing, see major in General Science, page 66.

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 430, 442, GEOG 374. In addition, the student must take MATH 152, 221.

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

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

For certification in elementary education, Complementary Subject Matter Area in Earth Sciences:

18–19 credits, as follows: ESCI 121, 129, 178 as core courses. A minimum of six credits from the following electives: ESCI 122 or 179 or 222 or 278 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

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

Major in Political Science, B.A.
36 credits in Political Science, as follows: PS 104 or 110 and one course in each of the following five areas— American Government and Politics; Political Theory; Comparative Government; International Relations and Organization; Public Law, Methodology and Organizational Behavior. 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, B.A.
36 credits in Political Science, as follows: PS 110, 230, 260, 344, 446, 450; 6 credits from PS 480/481 or 482/483 or 490/491, or approved 400-level courses in Political Science or other fields. 12 credits of electives from Political Science, or from fields directly related to Public Administration, with prior approval of the department advisor. Particularly appropriate electives are PS 315, 330, 331 or 332, 335, 430 and 431. Students must also complete a minor in an area relevant to Public Administration.

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

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

Psychology

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

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

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

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

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

The gerontology minor is an interdisciplinary program designed to provide 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.

Major in Psychology, B.A.

40 credits in Psychology, including the following required courses: PSY 112, 113, 221, 222, 236, 330 and 490. One course is required from each of the following 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 a Standardized Psychology outcomes test. The test will be administered by the department twice each semester; students may take the test only once.

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

Minor in Psychology

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

Minor in Gerontology

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

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

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

Science and Science Education

Interdepartmental Staff

Advisors — M. Bednarski, J. Jarrett

Major in General Science, B.S.

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

56–59 credits as follows:

1. Science and Mathematics Core (46 credits): BIO 121, 122; CHEM 121, 122;

ESCI 121, 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, 430

Chemistry: CHEM 238 or 301, 210, 211, 212, 213

Biology: BIO 200, 6–8 credits in BIO 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.

(b) Specialization in Physical Sciences

54 credits in science, including CHEM 121, 122; 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.

(c) Specialization in Environmental Interpretation

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

1. BIO 121, 122, 200; STAT 104 or CS 113; ESCI 121.

2. Structured elective component: Earth and Planetary Sciences. Four courses from the following or from other courses in Earth Science approved by the chair of the Physics/Earth Sciences Department: ESCI 129, 178, 179, 424, 450.

3. Structured elective component: Life Sciences. Two courses from the following: BIO 120, 150, 315, 321, 322, 326, 327, 405, 420, 425, 444, 480, selected in consultation with an advisor.

4. Electives. In lieu of a minor at least 15 credits, with the advisor's approval, from the following courses or from any of the Natural Sciences: ART 490; GEOG 256, 272, 276, 433, 442; ANTH 150, 151, 325, 422; SCI 518.

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

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

Mathematics, Computer Science, CAD, freshman English and various electives in Social Sciences and Humanities.

The Engineering Advisory Committee will assist students with transfer procedures to the School of Engineering at the University of Connecticut and to other schools of engineering.

Students planning to enroll should consult with the committee chair at the earliest opportunity. Inquiries should be addressed to the Engineering Transfer Program, Department of Physics and Earth Sciences, Central Connecticut State University, New Britain, CT 06050 (832-2932; 832-2930).

UConn/CCSU Joint Program in Public Affairs

There is a cooperative program between Central Connecticut State University and the University of Connecticut for the Master of Public Administration degree. An undergraduate student may enroll in up to four approved graduate-level courses and later apply these courses toward the MPA. Approved Central Connecticut State University courses (PS 445, 446 and 448) may be credited toward the MPA. Non-matriculated students, who have completed the B.A., may take up to three CCSU courses in the MPA program before applying for admission. Students may register from their home institution. Detailed information may be obtained from the chair of the Political Science Department, or from the director of the UConn Master of Public Affairs program.



Frank Mastrianna, *Interim Dean*
 Chris Galligan, *Interim Associate Dean & MBA Director*
 Sharon Braverman, *Assistant Dean & Academic Advising Director*
Phone: (860) 832-3205

The School of Business offers programs leading to the Bachelor of Science degree in Business Administration. Within our region, we provide the opportunity for an education in the field of business that is recognized by our stakeholders for its quality. Members of the faculty, dedicated to teaching and informed by their scholarship, prepare students to be thoughtful and responsible business professionals.

The curriculum of the School of Business is designed to provide appropriate theory and practice in problem solving, critical thinking, data analysis, use of information technology, communication, teamwork, ethics, and leading and managing. Students learn to engage with others of culturally diverse backgrounds and gain a global perspective.

The School of Business offers the following majors:

- Accounting
- Finance
- International Business
- Management
- Management Information Systems
- Marketing

Admission to the School of Business 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 com-

puter 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 may 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:

1. achieved Junior or Senior standing,
2. completed the Pre-Major Requirements with a minimum cumulative grade point average of 2.00,
3. attained a grade of C- or better in each of the Pre-Major Requirements courses, and
4. earned a minimum cumulative grade point average of 2.00 in all coursework at CCSU.

Students, who are:

1. currently enrolled in Pre-Major Requirements courses, and
2. 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 Major Status must maintain a minimum 2.00 cumulative grade point average. A student whose grade point average falls below the required minimum 2.00 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 students are required to complete a minimum of 45 credits “in residence” at CCSU. A student must complete a minimum of 30 credits in residence in courses offered by the School of Business and, of those 30 credits, take a minimum of 18 credits in residence in upper-division courses approved for the chosen major in the School. 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.

Finally, once a student has completed 90 college credits, the student must have advance permission from the office of the Dean of the School of Business to take any additional credits at other colleges or universities and count such courses towards a major in business.

School of Business Curriculum

All School of Business majors must complete (1) the General Education requirements comprised of study and skill areas, (2) the Common Business Core requirements, (3) the chosen Major requirements, and (4) 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:

Study Area II: ECON 200, 201 (Grade of C- or better)

Skill Area I: ENG 110 (Grade of C- or better)

Skill Area II: MATH 123 or 125, STAT 200, 201 (Grade of C- or better)

Business Requirements

Common Business Core (27 credits)

AC 211, 212; FIN 295; LAW 250; MC 207; MGT 295, 480; MIS 201; MKT 295.

Students must complete the entire Common Business Core with a minimum cumulative grade point average of 2.00. Students must also receive a grade of C- or better in each of the Common Business Core courses.

Business Major Requirements (30 credits)

Students must complete the entire Business Major course requirements with a minimum cumulative grade point average of 2.00 in all coursework at CCSU. Students must also receive a grade of C- or better in each Business Major course taken. (Some Business Majors may have higher minimum admission, grade, and cumulative grade point average requirements.)

Business Degree Minimum Grade and Cumulative Grade Point Average Requirements

Students must complete:

1. the Common Business Core with a minimum cumulative grade point average of 2.00 in all coursework at CCSU (Students must also receive a grade of C- or better in each of the Common Business Core courses);
2. the Business Major requirements with a minimum cumulative grade point average of 2.00 in all coursework at CCSU (Students must also receive a grade of C- or better in each Business Major course taken); and
3. the entire business degree program requirements (122 credits) with a minimum cumulative grade point average of 2.00 in all coursework at CCSU.

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.

Graduate Programs in Business

The School of Business offers the M.B.A. in International Business, the Master of Science in Business Education and Business Education certifications. See the Graduate

Catalog or the Director of Graduate Business Programs for details of these programs.

Accounting

J. Walo, *Chair*; L. Grasso, S. Machuga, M. Roxas, H. Shakun, J. Stoneback, S. Tomczyk; D. Stewart, *Secretary (Dept. phone 832-3220)*

The accounting program prepares its graduates for professional careers in public, corporate/industrial, and governmental/non-profit accounting and for advanced graduate study in accounting. The program provides the background necessary in such diversified areas of accounting 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 bachelor's degree. 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.

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:

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

ENTREPRENEURSHIP SPECIALIZATION: Prepares students for entrepreneurial careers in a new venture creation or managing family-owned or other small business enterprises. The specialization provides a basic foundation in the knowledge necessary to search for and evaluate new venture opportunities, and to finance, operate and manage new or growing businesses. Students are required to complete a field study experience.

Students must complete the School of Business 27-credit Common Business Core (see column 2 on page 72) 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, which must be approved by the coordinator of the Entrepreneurship Program or the Department Chair.

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
Total	30

Directed Business Electives

9 credits selected from the following list of courses:

	Credits
AC 301 Cost Management Systems	3
AC 420 Managerial Analysis and Cost Control	3
FIN 301 Intermediate Managerial Finance	3
FIN 310 Principles of Investments	3
MGT 305 Human Resource Management	3
MGT 426 Business Organizational Behavior	3
MKT 305 Consumer Behavior	3
MKT 340 Product Development and Management	3
MKT 423 Marketing Research	3
MKT 430 Sales Technique and Training	3
Total	9

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business (if prerequisite(s) are met) — only to be determined in consultation with advisor.

Business Electives total 9

Management Information Systems

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

The Management Information Systems (MIS) program prepares graduates for advanced graduate study and careers in organizations as information systems specialists focusing in the areas of application programming, data base administration, information systems management and systems analysis and design.

The program emphasizes the importance of information as an organizational resource to be managed for the generation of timely, quality information for business decision making. The use of information to make decisions in the areas of accounting, finance, management and marketing of an enterprise is stressed.

Students must complete the 27-credit Common Business Core (see column 2 on page 72) 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
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 Application 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
Total	6

Marketing

D. Scherban, *Chair*; J. Bonnici, S. Chen, R. A. DeCormier, A. Jackson, K. Koh, C. Lackman, J. Lefebvre, N. Raajpoot (*Dept. Phone 832-3305; e-mail: scherband@ccsu.edu*)

The Department of Marketing offers courses leading to a Bachelor of Science degree in Business Administration. Students choosing to major in Marketing have the opportunity to develop their own Custom Tailored Marketing Program (CTMP). Non-Marketing students, choosing to minor in Marketing, may select courses that complement their major.

The Marketing Department's program provides a basic foundation in Marketing theory and practices. It prepares students for entry-level positions leading to sophisticated careers dealing with real world problems. It also provides one an opportunity to continue on to graduate study.

Marketing is a field that offers ambitious students exciting career opportunities. In fact, about a third of all employees work in a marketing related activity ranging from marketing research to customer service. Marketing professionals learn about effects on business due to changing demographics, social evolution of markets and dramatic advances in technology. They also learn about threats and opportunities presented to them by the globalization of the world economy.

The 33-credit program starts with a 9-credit marketing core covering the primary areas of Marketing. Additionally, the Marketing Department strives for quality and flexibility in their programs. To facilitate this, the Department implemented a Custom Tailored Marketing Program (CTMP). This approach is designed to allow students the opportunity to focus their education by selecting courses that best fit their interests and needs. CTMP's can be tailored for such areas as advertising, hospitality, business-to-business, international and a host of other marketing fields. Graduates can expect to pursue careers in such diverse professions as advertising, sales, research, distribution, product development, marketing management and more.

Our faculty is constantly striving to help our majors excel. As part of this endeavor, they partner with students through internships and independent studies designed to help them expand their educational experiences.

Finally, the Department places a significant emphasis on quality teaching and strongly encourages both students and faculty to do individual research and scholarship.

Marketing Core (9 credits)		Credits
MKT 305	Consumer Behavior	3
MKT 423	Marketing Research	3
MKT 450	Strategic Marketing	3

Directed Marketing Electives (15 credits)

In consultation with a faculty advisor, students complete the Marketing major by selecting five additional courses from the directed electives listed below or as approved by the department chair.

	Credits
MKT 306	Advertising and Promotion 3
MKT 307	Sales Administration 3
MKT 308	Introduction to Hospitality 3
MKT 311	Retailing 3
MKT 313	Merchandising 3
MKT 321	International Marketing 3
MKT 340	Product Development and Management 3
MKT 350	Marketing Channels 3
MKT 358	Relationship Marketing 3
MKT 359	Special Events Marketing 3
MKT 375	Services Marketing 3
MKT 413	Business Marketing 3
MKT 430	Sales Technique and Training 3

MKT 450	Strategic Marketing	3
MKT 470	Marketing Communications Campaigns	3
MKT 480	Marketing for Non-Profit Organizations	3
MKT 494	Independent Study in Marketing	3
MKT 497	Marketing Internship	3

Business Electives (9 credits)

Students must complete 9 credits of 300- or 400-level courses offered or suggested by the School of Business (providing prerequisites are met) — to be determined only in consultation with advisors in the students' major. The Department considers MKT 494 and 497 as business electives and offers these courses only during Winter and Summer Session.

Minors for Business Majors in Subjects Other Than Business

A student may choose a minor (at least 18 credits) in a subject from the School of Arts and Sciences or the School of Technology. A student selecting this option 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, 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)

Any three courses 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.)

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, *Acting Dean*
Anne E. Pautz, *Assistant Dean*
Mary Pat Hager, *Associate Counselor*
Phone: (860) 832-2100

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 Bachelor's of Science 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 Bachelor of Science 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 experiences in education which lead to a degree in education and to certification.

Conceptual Framework

The conceptual framework serves as the guiding document that is foundational to an understanding of our programs, our philosophy, and the standards that align with our programs. Directly linked to our curriculum, the conceptual framework also provides a basis for assessment, analysis, and improvement of our program outcomes.

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

which 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 formed the 2003–2004 cohort of program completers finished a rigorous program of study that is widely recognized for its quality and is nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). Students completed subject/content area requirements equivalent to non-education majors in the same fields. In addition, students received 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 211 program completers identified in the 2003–2004 cohort. They took a total of 740 individual Praxis tests, passing 711 of those tests. This yielded a summary institutional passing rate of 96%, comparable to the statewide rate of 97%.

Undergraduate Degree Programs Leading to Teacher Certification

The following programs lead to a Bachelor of Science degree and prepare a student for teacher certification in the State of Connecticut

- Early Childhood Education (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 busi-

ness. Please contact the Coordinator for Business Education to learn more about this program (832-2590).

Students who are interested in becoming special education teachers must complete teacher certification at the graduate level. Contact the Special Education Department (832-2400), or refer to the CCSU Graduate Catalog for further information.

Although requirements vary from program to program, in general each undergraduate teacher preparation program has the following characteristics and procedures:

General Education. All teacher candidates are expected to satisfy the University’s general education program. Most of this work is completed during the student’s first three years at CCSU, or through transfer credit.

Subject Matter Majors. All teacher candidates are required to complete a subject matter major. These requirements vary from subject to subject and are described in the Arts and Science and Technology sections of this catalog.

Selective Admission to 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 Teacher Education Department.

Performance Assessment

The School of Education and Professional Studies may require students to complete a departmental performance assessment in order to qualify for student teaching and to complete the Professional Program.

Students must maintain good standing in the program in order to qualify for student teaching and a recommendation from CCSU for State of Connecticut certification. In addition to academic good standing, students must demonstrate the following:

- Personal attitudes and attributes that affect her or his performance as a teacher;
- Conduct that demonstrates professional behavior appropriate to the context and shows realization that actions reflect directly upon the status and substance of the profession;
- Confidentiality of all information concerning colleagues and students obtained in the educational process;
- Integrity and honesty in written and verbal communication, documentation and coursework related to the Professional Program for teacher certification.

Admission to a Teacher Preparation Professional Program

Many of the criteria and procedures for admitting students to a Professional Program leading to teacher certification are governed by State of Connecticut regulations. Admission in a timely fashion requires a degree of advanced planning on the part of teacher candidates. The procedures described below do not apply to programs in athletic training, health fitness, 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 Education.

The Admission Process

Phase I: Pre-application. When students first enter the University, they select a program and subject matter major and pursue (under the guidance of an advisor in the department where the major is housed) course work in general education and in the major. Toward the end of the second or in the third year of study, most full-time students are ready to apply for admission to a

Professional Program. Prior to this application, students are required to:

- Complete *45 credits*, of which 15 have been earned at Central Connecticut State University (with the exception of Elementary Education). 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 or Prueba De Aptitud Academica (PAA) scores. See the State Department of Education website at www.ctcert.org for details.
- 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 81. 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

- 1) 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.
- 2) Pass departmental portfolio review.
- 3) 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

- 1) An original laboratory report (or program-approved substitute) which the student has recently written and is the sole author.
- 2) 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

- 1) Grade of "C" or better in the following courses: ENG 110, HIST 261 or 262, MATH 113 or 213, PSY 236, EDT 210, EDTE 210, PSY 362 or 462. 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.
- 2) 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.
- 3) Pass a second on-site departmental essay com-

pleted after Professional Program application is submitted. 4) Document 30 hours of quality experience with children on the program-approved experience documentation form.

English Education

- 1) Minimum overall 3.00 GPA calculated on all courses with the ENG and LING prefixes (or their equivalents on transfer courses).
- 2) Successfully complete LING 200 (formerly ENG 200), ENG 205, ENG 206, ENG 210, ENG 211, ENG 220, and ENG 449 before applying to the Professional Program.
- 3) One of the two letters of recommendation must be from a CCSU English faculty member.

History/Social Studies Education

- 1) Minimum overall 3.00 GPA calculated on all courses with the ANTH, ECON, GEOG, HIST, SOC, PS prefixes (or equivalent transfer courses).
- 2) One of the two letters of recommendation must be a positive letter from a full-time faculty member of the Department of History.
- 3) All students must have a grade of "B" or better in HIST 301 or HIST 310 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 or 310 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. 4) 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

- 1) Minimum overall GPA of 2.70 calculated on mathematics courses counting toward major, with no more than two repeats.
- 2) 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. 3) Completion of Calculus II (MATH 221) with a grade of C- or better before applying to the Professional Program. 4) One of the two letters of recommendation must be from a faculty member in the CCSU Mathematical Sciences Department. 5) Pass a second mathematics essay written on the program-approved essay form.

Music Education

1) Pass at least 60% of piano proficiency exam. 2) Successfully complete MUS 101, MUS 216, MUS 222, and MUS 278 before applying to the Professional Program.

Physical Education

1) Minimum overall 3.00 GPA calculated on all courses with the PE prefix taken at CCSU. 2) Successfully complete five credits of PE lecture classes with three credits in PE 213 at CCSU unless department approves substitutions. 3) Successfully complete three credits of physical education skill classes at CCSU unless department approves substitutions.

Special Education

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

Technology Education

1) 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. 2) 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. 3) 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. 4) 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 248).
- Application packets are available in the information racks outside the Dean's Office (HB 248) and on the CCSU School of Education and Professional Studies Web site at www.education.ccsu.edu.
- Once the application packet is submitted, it will be reviewed by the Office of the Dean. Fulfillment of Praxis I and a cumulative grade point average of 2.70 or better for all attempted college work will be verified. Students who fulfill these admission requirements will have their applications forwarded to the respective department.
- The Office of the Dean forwards the application to the appropriate department for evaluation and scheduling of an interview. Once the department completes their review, it then recommends, to the Office of the Dean, the admission status for each applicant. 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 if the student has:

- A cumulative grade-point average below 2.7;
- Demonstrated unprofessional behavior or an inability to respond appropriately in various contexts which affects her or his performance as a teacher;
- Falsified or misrepresented any documentation or information provided

for programmatic, academic or professional qualification/competency purposes;

- Unacceptable performance in field experiences or student teaching;
- Achieves an unacceptable standard on the performance assessments required by the School of Education and Professional Studies
- Been convicted in a court of law of a crime involving moral turpitude or of any crime of such nature that in the opinion of the university would impair the standing of the School of Education and Professional Studies professional program; or
- Other due and sufficient cause.

Post-Baccalaureate Programs Leading to Teacher Certification Only

Students who already hold a bachelor's degree may pursue teacher certification through our post-baccalaureate programs. These programs prepare students for teacher certification and do not result in a master's degree. Students may seek certification in the following fields:

- Elementary Education
- Secondary Education in the following subjects: Biology, Business, Chemistry, Earth Sciences, English, French, 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 78 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 38) exists in the Department of Teacher Education which requires that departmental permission be granted to repeat any Professional Program course. Students must submit the request for permission to repeat any of these courses to the chair of Teacher Education before adding the course to their schedule for a second time. Once students have the chair's approval, the School of Education and Professional Studies will utilize the most recent CCSU GPA in its calculations of the 2.70 minimum total GPA requirement for continuation in the Professional Program.

Appeals Process for All Students and Programs

Students who have been denied admission because of the GPA requirement may write a letter of appeal to the Dean of Education for a waiver of the GPA requirement presenting compelling evidence of both of the following:

- 1) Demonstrated academic ability in recent coursework with an exemplary GPA showing a different pattern of performance from prior undergraduate course work; and
- 2) Intervening life experience, e.g., working with children or in a profession/vocation that has contributed to their growth and maturity as a prospective teacher.

The appeal will be reviewed and approved by the Assistant Dean, Coordinator of Teacher Education, Dean of Education and Professional Studies, an academic department chair/faculty and representatives of the SEPS Governance Council. The dean or designee may call a meeting with the applicant to discuss the appeal in person. The decision regarding the appeal of the GPA requirement will be communicated in writing to the student by the Dean of Education and Professional Studies or designee and the department.

Students who are denied admission to the Professional Program for reasons other than GPA may meet with the Assistant Dean to discuss issues concerning the application and the appeals process.

Connecticut Certification Procedures

To be eligible for Connecticut certification, a teacher candidate must be recommended by the Office of the Dean of the School of Education and Professional Studies.

Although teacher candidates must complete a Bachelor of Science (B.S.) degree in an approved program and pass the Praxis II test applicable to the certification endorsement area they are seeking*, teacher candidates must apply for certification during the last semester of enrollment.

To apply for certification, undergraduate teacher candidates must:

1. 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.
2. Submit a copy of the appropriate passing Praxis II or ACTFL scores with the application.
3. Once the CCSU Certification Officer reviews and signs the form, submit it to the Connecticut Bureau of Teacher Certification with the applicable fee.
4. 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:

1. Central Connecticut State University (Score Recipient Code Number R3898).
2. Connecticut State Department of Education (Score Recipient Code Number R7050).

*Information concerning Praxis II is available at the Office of the Dean or via the Educational Testing Services (ETS), Praxis Series 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

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

The department offers a Master of Science degree in Counselor Education and in Marriage and Family Therapy, preparing students for careers in School Counseling, Student Development in Higher Education, Rehabilitation Counseling, Mental Health Counseling, Drug and Alcohol Recovery Counseling, and Marriage and Family Therapy. See the Graduate Catalog for more information.

Educational Leadership

A. Rigazio-Digilio, *Chair*; F. Abed, *Program Coordinator*; K. Beyard, *Director of the Ed.D. program*; C. Carter-Lowery, J. Faryniarz, P. Lisi, C. McCray, T. Schultz, B. Silver, O. Sogunro, B. Sponder, A. Vaillant, S. Watson (*Dept. phone 832-2130*)

The Department of Educational Leadership offers a Master of Science in Educational Technology, a Master of Science in Educational Leadership, a Sixth-Year Certificate leading to certification as an inter-

mediate administrator or supervisor, and a doctoral program in Educational Leadership.

The department also offers graduate courses in curriculum development, research in education and undergraduate/graduate courses in Educational Technology.

Nursing

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

The Department offers a baccalaureate program, the Bachelor of Science in Nursing (B.S.N.), designed to prepare a liberally educated person to function as a professional nurse in a variety of roles and health care settings. The program requires 125 credits.

Upon completion of this program, graduates are expected to be professionally competent generalists in nursing, recognize the need for continued personal and professional development throughout life and possess the educational background for post-baccalaureate study in nursing.

Major in Nursing, B.S.N.

Admission

In addition to meeting all requirements established for admission to Central Connecticut State University,* the applicant must:

- be licensed currently as a registered nurse in Connecticut**
- carry and provide documentation of adequate malpractice and health insurance
- have completed a minimum of 45 undergraduate credits from an accredited college or university
- have advisement by nursing faculty
- be CPR certified
- meet specific immunization and OSHA requirements
- successfully complete the state articulation agreement (30 credits of nursing transferred from associate degree or diploma school program if the examination is passed) prior to enrolling in NRSE 303
- complete the B.S.N. program within five years of taking NRSE 303

*Admission to the University does not guarantee advancement to upper division nursing courses.

**Applicants in their final year of a diploma or associate degree may be accepted on a provisional basis.

Requirements

125 credits including validation examination (lower division nursing credits) of 33 credits and NRSE 300, 301, 303, 410, 412, 414. In addition, BIO 412, 413; PS 448; PSY 364; and MGT 295 are required. Degree program totals 125 credits.

Physical Education and Human Performance

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

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.

Physical Education: The Physical Education teacher preparation program prepares future teachers for public and private schools in the State of Connecticut. Those students who successfully complete the program are eligible for certification in pre-kindergarten through grade 12 physical education.

Exercise Science and Health Promotion:

A non-teacher certifiable program which prepares students for employment at fitness/wellness centers in corporate, non-profit, clinical and sport settings. Students are given the necessary cognitive and practical experiences for pursuing certification by the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association (NSCA). Exercise prescription and implementing individualized fitness programs are emphasized.

Athletic Training: A non-teacher certifiable program that prepares students for employment as certified athletic trainers in schools, colleges/universities, professional sports and sports medicine settings. Students in this program are given the necessary cognitive and psychomotor skills required for certification by the National Athletic Trainers

Association Board of Certification (BOC). The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Students who complete this program meet the requirements for eligibility to take the written, practical and written simulation examinations administered by the BOC for certification as an athletic trainer.

Major in Physical Education, B.S. Ed.
82 credits in Physical Education skill and lecture courses as follows.

Lecture Courses (45 credits)

PE 111	Orientation to Physical Education
PE 210	Personal and Community Health
PE 213	Anatomy in Physical Education
PE 214	Physiology in Physical Education
PE 216	Kinesiology
PE 300	Developmental Movement
PE 305	Evaluation in Physical Education
PE 402*	Organization & Administration of PE
PE 404*	Secondary Methods in Physical Education
PE 405*	Elementary Methods in PE
PE 406*	Adapted Physical Education
PE 408*	The Curriculum Process in K-12 PE
PE 409*	Psycho-Social Aspects of PE
PE 410*	Exercise Physiology
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 350	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 (20 credits)

EDT 315*	Educational Technology in the Secondary School Classroom
EDTE 316*	Principles of Learning
EDF 415*	Educational Foundations
or	
EDF 400*	Philosophy of Education

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

Note: No minor is required with this major.

Note: For information on admission to the Professional Program, see page 78.

Major in Physical Education: Exercise Science and Health Promotion, B.S. (not certifiable for teaching)
 64 credits in Physical Education as follows.

Lecture Courses (59 credits)

PE 110 Concepts in Fitness
 PE 113 Introduction to Exercise Science
 PE 210 Personal and Community Health
 PE 213 Anatomy in Physical Education
 PE 214 Physiology in Physical Education
 PE 216 Kinesiology
 PE 217 Care and Treatment of Athletic Injuries
 PE 307 Human Nutrition
 PE 311 Stress Management
 PE 380 Leadership in Exercise and Wellness
 PE 383 Recreation and Physical Activity for the Aging
 or
 PE 215 Physiological Aspects of the Human Performance of the Aging
 PE 398 Exercise for Special Populations
 PE 411* Organization and Management of Health Promotion Programs
 PE 412 The Application of Tort Law to Physical Activity
 PE 414* Physiology of Sport and Exercise
 PE 415* Fitness Assessment and Exercise Prescription
 PE 421* Pharmacology in Sports Medicine

PE 425* Implementation and Evaluation of Health Promotion Programs
 PE 450* Practicum in Exercise Science
 PE 470* Internship in Exercise and Health Promotion

Skill Courses (5 credits)

PE 201 Teaching Aerobics: Dance, Step and Aqua
 PE 375 Training for Fitness

* Require admission to the Professional Program prior to enrollment.

Required General Education Courses:
 BIO 111 or BMS 111, CHEM 111, ENG 110, HIST 261, HIST 262, STAT 104, CS 115, PHYS 111, PSY 112, 236, COMM 140.

Note: No minor is required with this major.

Applying for Admission into the Exercise Science and Health Promotion Program

Undergraduate applicants seeking admission to the Exercise Science and Health Promotion Program are required to submit a file of materials for review by the Department of Physical Education and 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.

1. Completion of application to the Professional Program for Exercise Science and Health Promotion
2. Completion of 45 credits of academic work
3. Successful completion of 5 credits of required physical education lecture courses including PE 213 and 2 credits of required skill courses
4. University Grade-Point Average of 2.50
5. Departmental Grade-Point Average of 2.50
6. Two letters of recommendation (from persons who can best assess the candidates potential)

7. The presentation of an essay demonstrating command of the English language, setting out the reasons for wanting to enroll in the program
8. An interview with the Personnel Committee of the Department of Physical Education and 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.

1. Students must maintain a University Grade-Point Average of 2.50.
2. Students must maintain a Departmental Grade-Point Average of 2.50.

Note: Internship assignments require the student to be in good standing by having both a University and a major GPA of 2.50.

Major in Athletic Training, B.S. (not certifiable for teaching)

69 credits as follows.

Lecture Courses (54 credits)

PE 110 Concepts in Fitness
 PE 112 Introduction to Athletic Training
 PE 210 Personal and Community Health
 PE 213 Anatomy in Physical Education
 PE 214 Physiology in Physical Education
 PE 216 Kinesiology
 PE 217 Care and Treatment of Athletic Injuries
 PE 218 Scientific Basis for Athletic Training
 PE 307 Human Nutrition
 PE 317 Therapeutics in Athletic Training
 PE 332 Psychological Aspects of Sport
 PE 398 Exercise for Special Programs
 PE 413* Organization and Administration of Athletic Training
 PE 414* Physiology of Sport and Exercise
 PE 415* Fitness Assessment and Exercise Prescription
 PE 421* Pharmacology in Sports Medicine
 PE 440 Therapeutic Modalities in Athletic Training
 IT 380 Emergency Medical Technician

Skill and Practicum Courses (15 credits)

PE 315*	Practicum in Athletic Training I
PE 316*	Practicum in Athletic Training II
PE 319*	Practicum in Athletic Training III
PE 375	Training for Fitness
PE 445*	Internship in Athletic Training

* Require admission to the Professional Program prior to enrollment.

Required General Education Courses:
BIO 111 or BMS 111, ENG 110, STAT 104, CS 115, PHYS 111, PSY 236, COMM 140.

Clinical Experience

All students in the Athletic Training Education Program are required to complete four semesters of clinical experience in Central's Athletic Training facility, one pre-season experience at CCSU that typically runs from mid-August to the first day of classes, and a fifth semester in an off-campus affiliation. The student will be under the direct supervision of a certified athletic trainer while obtaining the minimum of 800-clock hours required by the BOC to become eligible to sit for the certification exam. While the program maintains the minimum standard of 800-clock hours of clinical experience under the direct supervision of a BOC certified athletic trainer, emphasis is placed on mastery of the educational competencies over the five semesters of clinical experience.

Note: BOC approved clinical hours will begin upon acceptance in the Athletic Training Education Program.

Applying for Admission into the Athletic Training Education Program

Undergraduate applicants seeking admission to the Athletic Training Education Program are required to submit a file of materials for review by the Department of Physical Education and 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 114.

Requirements for Admission

The following are departmental requirements for admission to the Athletic Training Education Program. Acceptance into the Professional Program should be completed by the second semester sophomore year. Students not meeting this deadline must meet with the program director to continue in the Professional Program.

1. Completion of application to the Professional Program for athletic training
2. Successful completion of 200 observation hours in the clinical aspect of athletic training at CCSU
3. Completion of 45 credits of academic work at CCSU as an athletic training major
4. Successful completion of PE 112, PE 213 (at CCSU) and PE 217 (at CCSU), with a grade of C- or better in all courses
5. Successful completion of IT 380
6. University Grade Point Average of 2.50
7. Departmental Grade Point Average of 2.50
8. Two letters of recommendation (from persons who can best assess the candidates potential)
9. The presentation of an essay demonstrating command of the English language, setting out the reasons for wanting to enroll in the program, and emphasizing experiences related to Athletic Training (500–750 words)
10. An interview with the Personnel Committee of the Department of Physical Education and 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 Allied Health Education Programs [CAAHEP]). All students admitted to the Professional Program in the Athletic Training must meet the following abilities and expectations. In the event a student is unable to fulfill these technical standards, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC certification exam.

Candidates for admission to the Professional Program in Athletic Training at CCSU must demonstrate:

1. The demonstrated ability to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
2. Evidence of sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and the demonstrated ability to accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.
3. The demonstrated ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, ability to maintain a professional demeanor, establish rapport with patients, and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
4. The demonstrated ability to record the physical examination results and a treatment plan clearly and accurately.
5. The demonstrated ability to maintain composure and continue to function effectively during periods of high stress.
6. The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced.
7. Demonstration of flexibility and ability to adjust to changing situations and uncertainty in clinical situations.
8. The demonstrated ability to perform the affective skills that relate to professional education and quality patient care.

Candidates for admission to the Professional Program in athletic training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

A student who believes that they have a disability that may impact admission to or successful completion of this program should contact the *CCSU Office of Special Student Services in Willard Hall, Room 100, 832-1955, TDD 832-1958*. The Office of

Special Student Services will evaluate the student's documentation to determine if the stated condition qualifies as a disability under applicable laws and so notify the Program Director of Athletic Training Education Program and the Chair of the Department of Physical Education & 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

The following requirements must be maintained in order to remain in good standing within the Athletic Training Education Program.

1. Students must maintain a University Grade-Point Average of 2.50.
2. Students must maintain a Departmental Grade-Point Average of 2.50.
3. Students must successfully progress in completing the skills competency checklists.

Note: BOC-approved clinical hours will begin upon acceptance into the Athletic Training Education Program. Internship assignments require the student to be in good standing by having both a university and a major GPA of 2.50 in addition to successful completion of all practicum courses and EMT Certification.

Transfer Students Policy

Transfer students must meet the same course requirements and application process as CCSU students. Transfer students are required to complete a minimum of 45 total credits "in residence" at CCSU. The 45 credits for transfer students may be in General Education and/or within the Athletic Training Education Program and must include PE 112, PE 213 and PE 217. Currently, all requests for transfer into the Athletic Training Education Program, either by students from other universities or by CCSU students looking to change majors, are handled on a case-by-case basis. The number of students accepted in this manner depends on the number of openings available in that year.

Reading and Language Arts

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

The Department of Reading and Language Arts offers both undergraduate and graduate courses in teaching reading and language arts.

At the undergraduate level, required courses 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

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

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.

Major in Social Work, B.A.

General Program:

51 credits as follows: 42 credits in Social Work core courses including SW 226, 227, 360, 361, 362, 368, 374, 426, 450, 451, 452, 453; 6 credits of social work electives; and 9 credits of related courses including SOC 110 or ANTH 140; SOC 111, 233. Social Work majors are also required to complete the following as part of their general education requirements: BIO 111; PS 110 or 230; ECON 200 and STAT 215.

Note: This major does not require a minor.

Special Education

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

The Department of Special Education prepares teachers to work with learners who have special needs. At the undergraduate level, the Department offers courses about exceptional-

ties that are required for certification of regular education teachers. Students who are interested in becoming special education teachers are encouraged to pursue teacher certification at the undergraduate level in elementary or secondary education, and then seek cross endorsement in special education at the graduate level. Contact the Special Education Department, or refer to the CCSU Graduate Catalog for further information.

Teacher Education

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 832-2415*)

The Department of Teacher Education is committed to the preparation and continuing professional education of students involved in early childhood, elementary, all-level and secondary education teaching programs.

The Department offers certification programs at the following levels.

Early Childhood Education (no applications are being accepted at the present time)

Elementary Education

Secondary Education

All-Level (K-12)

Note: For information on admission to the Professional Program, see page 78.

EARLY CHILDHOOD EDUCATION

Contact person: M. Howell (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 (or ISM 211 and 213), HIST 261 or 262, and PSY 236 and 462.

Subject Matter Major. (42-43 credits)

Students must complete a dual subject matter major including a 24-25 credit primary subject area and an 18 credit complementary subject area of Human Growth and Development. Students may choose a primary subject area in either English, Mathematics, or General Science. (See Arts and Science sec-

tions for specific course requirements.) The required Human Growth and Development courses are: PSY 112, PSY 200, PSY 239, PSY 365, PSY 462 and SOC 233.

Professional Education. (42 credits)

Courses are taken in clusters as follows:

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities

EDT 210 Introduction to Educational Technology

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies. Applications are accepted in the second week of the fall and spring semesters. Courses are offered on an annual cycle.

EDEC 413 Principles of Early Childhood Education

RDG 315 Comprehensive Reading Instruction I

EDEC 423 Methods and Curriculum for Early Childhood

RDG 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.

ELEMENTARY EDUCATION

Coordinator: S. Seider (832-2429)

Program Requirements (130 credits)

General Education requirements as follows: ENG 110, MATH 113, MATH 213 and BIO 211 (or ISM 211 and 213), HIST 261 or 262, PSY 236, ESCI 111 or any other ESCI course. Elementary Education majors are also required to take either PSY 362 or 462.

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
- Mathematics with a complementary area of Biology or Earth Science

See Arts and Science sections for specific course requirements.

Professional Education. (49 credits)

Courses are taken in clusters as follows:

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities

EDT 210 Introduction to Educational Technology

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies. Applications are accepted in the second week of the fall and spring semesters.

RDG 315 Comprehensive Reading Instruction I

EDTE 315 Principles of Learning: Elementary

SPED 315 Introduction to Educating Learners with Exceptionalities

All levels: Art, Music, Physical Education, Technology Education
See Arts and Science or Technology sections for specific course requirements.

RDG 316 Comprehensive Reading Instruction II

Minor. (18–24 credits)

EDEL 322 Effective Elementary Teaching

The completion of a minor or a certifiable minor is required unless specifically noted in the individual major. Options for certifiable minors for science majors include Biology, Chemistry, Earth Science, and General Science. Specific course requirements for minors can be found in the Arts and Science sections.

EDTE 320 Practicum in Elementary Education I

Professional Education. (24–34 credits)

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies.

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

RDG 440 Literacy in the Secondary School

EDTE 316 Principles of Learning

SPED 315 Introduction to Educating Learners with Exceptionalities

EDSC 375 Principles and Evaluation in Education (All levels)

or

EDSC 425 Principles of Secondary Education

EDF 400 Philosophy of Education

or

EDF 415 Educational Foundations

EDSC* Student Teaching

Major Methods Course in conjunction with the major academic department

*Course numbers and availability of student teaching vary based on certification field.

Additional professional education course work is required in the academic discipline to be taught.

FIELD EXPERIENCES AND STUDENT TEACHING

Director: Holly Hollander (832-2144)

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 grade point average;
- complete a student teacher application and necessary paperwork;

- submit student teacher application with all accompanying documents by the following deadlines—October 1 for the spring semester; March 1 for the fall semester;
- 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.

The completion of a minor is not required.

SECONDARY EDUCATION and ALL-LEVEL SUBJECTS

Coordinator: A. Ayalon (832-2135)

Program Requirements (130 credits)

General Education.

Requirements for secondary programs are as follows: 6 credits in English (ENG 110 is required), HIST 261 or 262, PSY 236, 6 credits of Science, and 6 credits in Mathematics. For all-level program requirements, students should consult the chair of their 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

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*
 Timothy Shine, *Interim Associate Dean*
Phone: (860) 832-1800; Fax: 832-1804

The School of Technology prepares graduates in professional technological fields. The only public school of technology in the state of Connecticut, it consists of five departments: Biomolecular Sciences, Computer Electronics and Graphics Technology, Engineering Technology, 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, the bachelor of science degree (in education) prepares individuals for teaching careers in technology education.

The School provides students with an opportunity to be educated in 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

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

The Biomolecular Sciences Department offers instruction in molecular biology, cell biology, genetics, and physiology that is strongly integrated with the theory and practice of molecular biological research. The Department offers two B.S. degrees in Biomolecular Sciences, and participates in an additional interdisciplinary program that leads to a B.S. degree in Biochemistry. In addition, the Department offers a Minor in Biomolecular Science, and an Official Certificate in Biotechnology appropriate for students with majors other than biomolecular science.

Student-centered research is a feature of all undergraduate programs in Biomolecular Sciences. Located in Copernicus Hall, the Biomolecular Sciences Department 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, and a computer laboratory. Student-centered biomolecular research activity is also promoted, fostered, and supported by the Biotechnology Institute at CCSU, an interdisciplinary organization (housed in the Biomolecular Sciences Department) that is dedicated to developing college graduates with excellent research skills. The Biomolecular Sciences Department is strongly committed to student advising and routinely promotes and participates in academic and extracurricular activities aimed at facilitating student learning and success.

Major in Biomolecular Sciences, B.S. (Non-teaching)

Core (10 credits):
 BMS 102, 190, 201, 290, 390, and 491,
 and *one* of the following Advanced
 Components (a or b). BIO 121 may be substituted for BMS 102/190.

Advanced Component options (35 credits required in the major)

a. 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 labo-

ratory 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, 391, 412/413, 414, 415, 490, 495, 496/497, 499, CHEM 320, 454/455, 456, BIO 401, 416, or 449/450.

b. 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 391, 415, 490, 496/497, 499, CHEM 454/455, 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 124 (or 115 and 125); CHEM 121, 122, 210, 211, 212, and 213; PHYS 121 and 122; and maintain a Student Portfolio. While no minor is required for the B.S. in Biomolecular Sciences, a Minor in Science may be elected with a C- or better in Related Requirement courses CHEM 121, 122, 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 Undergraduate 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 CGPA 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 540	Advanced Topics in Biomolecular Science	3–4
BMS 562	Developmental Biology	3
BMS 570	Advanced Genetics	3

Major in Biochemistry, B.S.

The B.S. 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. 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 101 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 Biomolecular Sciences Department), 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: 1) as a course requirement in BMS 190 and 290, 2) as a required component of all BMS 390, 391, or 491 independent studies or internships, and 3) prior to application for graduation, as evidenced by submission of a "Portfolio Requirement Completed" form

(available from the Biomolecular Sciences Department and signed by the major advisor) to the Biomolecular Sciences Chair.

Minor in Biomolecular Sciences (non-teaching)

20 credits, including BMS 102, 190, 201, and 290; and 12 additional credits of BMS courses, as approved by the Biomolecular Sciences advisor. BIO 121 may be substituted for BMS 102/190.

Official Certificate Program: Certificate in Biotechnology (OCP 101)

This certificate program is designed for undergraduates with majors other than Biomolecular Sciences who wish to develop proficient laboratory skills and demonstrate specialized knowledge in the area of modern molecular biotechnology.

The Biomolecular Sciences Chair will serve as the point-of-contact for interested students and will assign each a committee of three advisors who work with the students to develop a planned program to best serve individual needs and goals.

To be eligible for a Certificate in Biotechnology, a student must be in good standing. Courses taken to satisfy major requirements may be counted to satisfy certificate requirements as well, provided the student has earned a B or better in such courses. Award of the certificate will require portfolio compilation and review (see above for description of the Biomolecular Sciences portfolio requirement).

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

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

Laboratory Science Component (12 cr.):
Three 4-credit courses (with lab) chosen from the following: BMS 306, 311, 316, 490 (4-credit sections only), 495, 496/497; BIO 449/450; or CHEM 454/455.

Molecular Biology Elective (3–4 cr.):
Three–four additional credits elected from any of the above or from the following: BMS 415, 490, 562, 570; BIO 416; or CHEM 456.

Note: Course prerequisites must be met. Undergraduate students who wish to enroll in graduate courses are required to have a

3.00 CGPA and senior standing (at least 90 credits completed). Students are also required to obtain the written permission of their advisor, chair of the department offering the course, and the graduate dean prior to registration.

Computer Electronics and Graphics Technology

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

The Computer Electronics and Graphics Technology Department offers the following undergraduate (Bachelor of Science degree) and graduate (Master of Science degree) programs:

- BS 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.

ELECTRONICS TECHNOLOGY

MAJOR, B.S. (63 credits)

Advisor: D. Zanella (832-1841)

Accredited by NAIT

This degree prepares students to work as a member of an engineering team in applied design, product development, manufacturing, maintenance or technical support/sales services in the electrical and electronic industries which include telecommunications, control systems, manufacturing of electromechanical devices and computer services.

Technology Requirements Credits

CET 223	Basic Electrical Circuits	3
CET 233	Advanced Electrical Circuits	3
CET 243	Electronic Devices	3
CET 323	Analog Circuits	3
CET 363	Digital Circuits	3
CET 443	Electronic Communication	3
CET 453	Microcomputers	3
EMEC 114	Intro. to Energy Processing	3
EMEC 303	Electro-Mechanical Converters	3
MFG 121	Technical Drafting and CAD	3
CET 113	Intro. to Information Processing	3
Electives—Technical and Management	Choose from the following: EMEC 313, 333, 463; IT 480; CS 151 or 213	6

Core Courses Credits

IT 190	Introduction to Quality Assurance	3
IT 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

TC — Technical Courses — designed to develop technical competencies for Computer Electronics and Graphics Technology, Manufacturing and Construction Management, Engineering Technology and Technology Education.

General Education Requirements

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

Industrial Technology majors are required to complete the following 3-credit courses as part of their General Education: Skill Area I — ENG 110, COMM 140; Skill Area II — STAT 104, MATH 115; Study Area II — ECON 201; Study Area IV — CHEM 111 with lab, PHYS 111 with lab.

Note: A minor is not required for this major.

COMPUTER ENGINEERING

TECHNOLOGY MAJOR, B.S. (124 credits)

Specialization Requirements (39 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	3
CET 323	Analog Circuits	3
CET 339	Computer System Administration	3
CET 346	Signals & Systems	3
CET 349	Network Devices	3
CET 366	Fundamentals of Logic Design	3
CET 449	Advanced Networking	3
CET 453	Microcomputers	3
CET 498	Senior Project (Capstone)	3

Core Requirements (27 credits)

ET 150	Introduction to Engineering Technology	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 Computer Programming	3
CS 152	Computer Science II	3

Directed Electives (12 credits)

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

CET 301	Fiber-Optic Communications	3
CET 459	Networking 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 244 in Skill Area IV.

INDUSTRIAL TECHNOLOGY MAJOR, B.S. (63 credits)

Accredited by NAIT

Technology majors, regardless of the program selected, are required to complete a common core of 24 credits in technical and management courses as part of their program. The core courses and general education requirements for this degree are the same as those listed in the Electronics Technology major on this page.

Graphics Technology

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

This specialization is designed to provide the student with knowledge of the various techniques used in the printing industry: composition, photo mechanicals, press work and bindery. The training will be broad in scope, with an emphasis on wide background rather than mechanical skills, and will equip students to work in management as supervisors, estimators, salespersons or production controllers.

Specialization Requirements Credits

CS 110	Intro. to Internet Programming and Applications	3
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DES 100 Introduction to Graphic/ Information Design	3
CET 113 Intro. to Information Processing	3
GRT 112 Digital Imaging for Graphics Technology	3
GRT 212 Graphic Arts Processes	3
GRT 242 Intro. to Graphic Design and Color	3
GRT 342 Screen Printing and Post-Press Operation	3
GRT 362 Estimating and Scheduling for Graphics Technology	3
GRT 442 Print Production	3
GRT 462 Advanced Graphic Arts Techniques	3
Directed Electives	9

Networking Technology

Advisors: V. Rajaravivarma (832-0075), K. Tracey (832-1842)

The Networking Technology specialization prepares individuals to enter into the evolving world of Information Technology, dealing with computer hardware and software, as well as the peripheral devices closely associated with computer-based systems. The curriculum focuses on local and wide area network design, administration and internet technologies. Analytically based mathematics, computer science, electronics and business courses round out the program.

Specialization Requirements	Credits
CET 113 Intro. to Information Processing	3
CET 229 Computer Hardware Architecture	3
CET 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 453 Microcomputers	3
CET 479 Internet Technologies	3
Directed Electives Selected in consultation with advisor	12
	Credits 39

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 Technology

A. Gates, P.E., *Chair* (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*
832-1815; *Fax* 832-1811; *Web site:*
www.technology.ccsu.edu)

The Department of Engineering Technology offers the Bachelor of Science (B.S.) with majors in engineering technology.

The Department offers three technical majors designed to prepare students to become active partners with engineers and to be team members of the total technological enterprise that extends from planning and production to construction and/or service.

Students who have chosen a specific major in Engineering Technology will be able to apply scientific, mathematical and basic engineering knowledge and methods, combined with technical skills, in support of engineering activities. The four-year planned course of study includes science, mathematics, computer graphics, communications and mechanics, along with laboratory courses in the technical specialization.

The Civil, Manufacturing and Mechanical Engineering Technology programs are accredited by the Technology Accreditation Commission of Accreditation Board for Engineering and Technology, Inc. (TAC of ABET), 111 Market Place, Suite 1050, Baltimore, Maryland 21202. Phone: (410) 347-7700.

Students of senior standing within an accredited program are eligible to take the Fundamentals of Engineering (FE) examination as the first step towards obtaining their Professional Engineer (PE) licensure. Application materials may be requested from the Department of Consumer Protection, 165 Capitol Avenue, Hartford,

CT 06106-1630; phone: (860) 713-6145. Additional information about the examination may be obtained from the National Council of Examiners for Engineering and Surveying (NCEES) Web site at <http://www.ncees.org>.

PLANS OF STUDY

Those students enrolled in the Department of Engineering Technology may attend the University as full- or part-time students. Courses offered in the late afternoons or evenings allow part-time students to maintain full-time employment. Full-time students may complete their 130-credit program in four years. The engineering technology major does not require a minor. A Co-op experience is suggested for all students.

ENGINEERING TECHNOLOGY MAJOR, B.S.

General Education Requirements

Engineering Technology majors are required to complete 40 to 49 credits of the following courses as part of their General Education requirements.

	Credits
Study Area I: Arts & Humanities	9
3 credits of Literature and 6 credits of Literature, Philosophy or Fine Arts. No more than six credits from any one discipline.	
Study Area II: Social Sciences	6
3 credits of History and 3 credits of Economics, Geography, History or Political Science	
Study Area III: Behavioral Sciences	3
3 credits of Anthropology, Psychology or Sociology	
Study Area IV: Natural Sciences	8
PHYS 121 or 125**, and PHYS 122 or 126**	
Skill Area I: Communication Skills	6
ENG 110* and COMM 140	
Skill Area II: Mathematics	6 or 8
MATH 135 or 152**, and MATH 136 or 221**	
Skill Area III: Foreign Language Proficiency	0-6
Skill Area IV: University Requirement	2-3
PE 244	

* Placement exam may be required before enrolling in English or Mathematics courses.

** Recommended

A minimum grade of C- is required in all courses in the major, all additional course

requirements and courses in Study Area IV, Skill Area I and Skill Area II.

Students are required to obtain an account and computer certification from the campus Microcomputer Lab Office in their first semester of registration.

Engineering Technology Majors

The Department currently offers the following three majors: (i) civil, (ii) manufacturing, and (iii) mechanical. Each Engineering Technology student should choose one of the majors based on individual interests and goals. Course requirements for each major are presented below.

(i) Civil Engineering Technology

Accredited by TAC of ABET

Advisor: S.C. Basim, P.E. (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

51 credits as follows:

	Credits
CM 356	Materials of Construction 3
ET 150	Introduction to Engineering Technology 3
ET 251	Applied Mechanics I — Statics 3
ET 252	Applied Mechanics II — Dynamics 3
ET 354	Applied Fluid Mechanics 3
ET 357	Strength of Materials 3
ET 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

Additionally, the following courses are required.

CET 113	Introduction to Information Processing 3
CM 155	Construction Documents 3
CET 233	Advanced Electrical Circuits 3
CHEM 121	General Chemistry I 4
CHEM 122	General Chemistry II 4
MATH 119	Pre-Calculus with Trigonometry 4
or	
MATH 121	Pre-Calculus Mathematics 3
STAT 104	Elementary Statistics 3
CS 213	Applications of Computer Programming 3
or	
ET 240	Spreadsheet Tools for Engineers 3
ENG 403	Technical Writing 3
Directed technical electives selected in consultation with an academic advisor 7	
Free elective	3

The following courses, selected in consultation with an academic advisor, satisfy the Directed Technical Electives requirement:

ET 495	Topics in Engineering Technology 3
ETC 472	Timber Structures 3
ETC 476	Environmental Technology 3
ETM 358	Applied Thermodynamics 3

(ii) Manufacturing Engineering Technology

Accredited by TAC of ABET

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

This major develops concepts employed by manufacturing industries to increase 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

Forty-two (42) credits as follows:

ET 150	Introduction to Engineering Technology 3
--------	--

ET 251	Applied Mechanics I — Statics 3
ET 252	Applied Mechanics II — Dynamics 3
ET 357	Strength of Materials 3
ET 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 technical electives selected in consultation with an academic advisor 3	

Additionally, the following courses are required.

CET 113	Introduction to Information Processing 3
CET 233	Advanced Electrical Circuits 3
EMEC 324	Fluid Power Systems 3
IT 290	Statistical Process Control and Metrology 3
IT 480	Robotics III 3
MFG 121	Technical Drafting and CAD 3
MFG 216	Manufacturing Processes 3
MFG 226	Principles of Computer Numerical Control 3
MFG 236	Tool Design 3
CHEM 121	General Chemistry I 4
MATH 119	Pre-calculus with Trigonometry 4
or	
MATH 121	Pre-Calculus Mathematics 3
STAT 104	Elementary Statistics 3
CS 213	Applications of Computer Programming 3

or	
ET 240	Spreadsheet Tools for Engineers 3
ENG 403	Technical Writing 3
Free elective	1–5

(iii) Mechanical Engineering Technology

Accredited by TAC of ABET

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

This major integrates the aspects of energy conversion, mechanism control, heat and mass transfer, machine dynamics and design with computer design and analysis to prepare engineering support personnel to assist in the design of machinery and instrumentation for industrial, transportation and utility applications. The mechanical engineering technologist makes significant contributions in supporting engineering design, testing, production, research and development operations in a wide variety of industrial, aerospace and government organizations.

Major Requirements

51 credits as follows:

ET 150	Introduction to Engineering Technology	3
ET 251	Applied Mechanics I — Statics	3
ET 252	Applied Mechanics II — Dynamics	3
ET 354	Applied Fluid Mechanics	3
ET 357	Strength of Materials	3
ET 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 technical electives selected in consultation with an advisor 3

Additionally, the following courses are required.

CET 113	Introduction to Information Processing	3
CET 233	Advanced Electrical Circuits	3
EMEC 324	Fluid Power Systems	3
EMEC 334	Mechanisms for Automation	3
MFG 121	Technical Drafting and CAD	3
MFG 216	Manufacturing Processes	3
CHEM 121	General Chemistry I	4

MATH 119	Pre-calculus with Trigonometry	4
or		
MATH 121	Pre-Calculus Mathematics	3
STAT 104	Elementary Statistics	3
CS 213	Applications of Computer Programming	3
or		
ET 240	Spreadsheet Tools for Engineers	3
ENG 403	Technical Writing	3
Free elective		2–7

Manufacturing and Construction Management

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

The Manufacturing and Construction Management Department offers the following undergraduate (Bachelor of Science degree) and graduate (Master of Science degree) programs:

- BS Construction Management
- BS Industrial Technology with specializations in
 - Manufacturing
 - Environmental and Occupational Safety
 - Electro-Mechanical Technology
 - Technology Management
- MS Technology Management

The Manufacturing and Construction Management Department offers programs designed to prepare students for technology-oriented supervisory, middle management and leadership positions. The programs respond to an increasing industry demand for highly qualified personnel who have a combination of technical and managerial skills. Therefore, this study includes a comprehensive knowledge of manufacturing and construction processes and applied technologies, in addition to a background in general education. Providing broad range of educational and career enhancement opportunities, the Department prepares graduates for careers in rapidly changing technical fields.

PLANS OF STUDY

Students interested in the Technology programs may attend Central Connecticut State University full- or part-time. Part-time study permits a student to keep a full-time day job and enroll in courses in the late afternoon or evening. Full-time students may complete the 122-credit program in four years.

CONSTRUCTION MANAGEMENT MAJOR, B.S. (72 credits)

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

Major Requirements		Credits
CM 125	Construction Graphics	3
CM 135	Construction Quantity Take-Off	3
CM 235	Building Construction Systems	3
CM 245	Heavy/Highway Construction Systems	3
CM 255	Construction Business Principles	3
CM 335	Construction Safety	3
CM 435	Construction Superintendency	3
CM 465	Construction Internship	3
CM 155	Construction Documents	3
CM 325	Building Construction Estimating	3
CM 345	Heavy/Highway Construction Estimating	3
CM 355	Construction Planning	3
CM 356	Materials of Construction	3
CM 455	Construction Project Management	3
ET 251	Applied Mechanics I— Statics	3
ETC 353	Introduction to Surveying	3
ETC 405	Applied Structural Systems	3
Free Electives		(0–4)

Other Required Electives (21 credits):

AC 211	Introduction to Financial Accounting	3
MGT 295	Fundamentals of Management and Organizational Behavior	3
ENG 403	Technical Writing	3
LAW 250	Legal Environment of Business	3
MKT 295	Fundamentals of Marketing	3
MATH 125	Applied Calculus I	3
CET 113	Introduction to Information Processing	3

Requirements in General Education (46–53 credits):

- Study Area I
9 credits, including Literature elective (3) and PHIL 242;
- Study Area II
9 credits: History elective (3) and ECON 200 and 201;
- Study Area III
6 credits, recommended to include PSY 112;
- Study Area IV
8 credits: CHEM 121 and PHYS 121;
- Skill Area I
6 credits: ENG 110 and COMM 115 or 140;
- Skill Area II
6 credits: STAT 200 and MATH 115;
- Skill Area III
0–6 credits;
- Skill Area IV
2–3 credits

Note: A total of 122 credits are required for the degree.

INDUSTRIAL TECHNOLOGY MAJOR, B.S. (63 credits)
Accredited by NAIT

Industrial Technology majors, regardless of the program selected, are required to complete a common core of 24 credits in technical and management courses as part of their program. Courses included within these common requirements are as follows:*

Industrial Technology Core Courses		Credits
IT 190	Introduction to Quality Assurance	3
IT 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.

Manufacturing

Advisors: M.L. Emiliani (832-3229), D. Stec (832-1891)

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	Intro to Six Sigma Quality	3
Technical & Management Electives		6
Total credits		39

Environmental and Occupational Safety
Advisor: G. Ku (832-1852)

The Occupational Safety and Health Act of 1970, by requiring employers to provide safe and healthful working conditions, has increased the need for trained safety personnel. This specialization in Environmental and Occupational Safety will prepare students for management positions as safety professionals in private industry and federal, state and local government.

Specialization Requirements	Credits
CET 113	Intro. to Information Processing 3
EMEC 114	Intro. to Energy Processing 3
MFG 118	Intro. to 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	

Electro-Mechanical Technology
Advisor: D. Dowty (832-1816)

The mission of this program is to educate students in technical management as it applies to electro-mechanical technology. Students develop their technical skills in the laboratory. Course work is provided in the areas of hydraulics, pneumatics, mechanical motion control, programmable logic controllers, servo and no-servo robotics, engines, electrical motors and generators, and industrial electricity. Emphasis is placed on data acquisition and feedback mechanisms and the use of various control

devices, including personal computers, programmable logic controllers, and sequence controllers. Culminating experiences in management provide graduates with the skills to become supervisors, project managers, production automation technicians, and technical salespeople in the field.

Specialization Requirements	Credits
CET 113 Intro. to Information Processing	3
EMEC 114 Intro. to Energy Processing	3
MFG 118 Intro. to 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.

Technology Management

Advisors: M.L. Emiliani (832-3229), P. J. Resetarits (832-1834)

This specialization has been developed to allow students to develop a custom plan of study utilizing various existing technical and management courses. Students transferring credits in from other institutions of higher education can use those credits in this specialization. The Technology Management Specialization requires the student to complete the 24 credits in the Industrial Technology core courses plus 39 credits of Technical and Management Electives.

Specialization Requirements	Credits
Technical and Management Electives	39

Courses selected in consultation with, and approved by, advisor. At least one half of the elective credits must be at the 300 or 400 level.

Note: A minor is not required for this major.

Technology Education

J. A. DeLaura, *Chair* (832-1850),
P. Foster, D. Sianez, M. C. Vincenti (*Dept. phone 832-1850; Fax 832-1811; Web site: www.technology.ccsu.edu*)

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

- Bachelor of science degree in Technology Education
- Post Baccalaureate Certification Program in Technology Education
- Master of science degree programs in Technology Education
- Planned post master's—no certificate or degree

Specific requirements for the planned fifth year, master of science degree program and post master's programs in Technology Education are stated in the graduate catalog.

TECHNOLOGY EDUCATION

The Technology Education curriculum prepares individuals for teacher certification, grades K–12. Emphasis is placed on designing, developing and utilizing technological systems; open-ended problem-based design activities; cognitive, manipulative and affective learning strategies; and applying technological knowledge and processes to real-world experiences utilizing up-to-date resources. Technology Education majors complete a core of technology courses involving classroom and laboratory experiences with the materials, machines, systems and concepts related to technology. In General Education, technology majors experience courses in the humanities, social and behavioral sciences, mathematics, natural sciences, fine arts and physical education. Preparation as a technology educator culminates with a core of professional education courses involving teaching strategies, evaluation, curriculum development and student teaching.

Individuals who already have a bachelor's degree who desire to meet certification requirements for teaching Technology Education in Connecticut should contact Mr. Peter Rodrigues (832-1857).

TECHNOLOGY EDUCATION MAJOR, B.S.

Advisors: J. A. DeLaura, P. Foster, M.C. Vincenti

General Education Requirements

A total of 44–46 credits in General Education studies must be completed as part of all baccalaureate degree programs. See the General Education section in this catalog.

Technology Education students are required to take ENG 110, HIST 261 or 262, PSY 236, TE 110, PHYS 111, CHEM 111, STAT 104. These courses count toward the overall General Education requirements. MATH 115 and COMM 115 or 140 are recommended.

Note: This major does not require a minor.

Technology Education Professional Requirements

Students are required to take TE 199, 399, 400 and 428. All of these courses may not be available each semester and are seldom available during the summer sessions; refer to the course description section of this catalog for information.

Technology Education Technical Requirements

Technology Education majors are required to take CET 113, EMEC 114, MFG 118, MFG 121, GRT 212, and TE 213, 214, 215, 245, 310, 330, 420, and 450. Students may take additional technical courses, indicated by the TC prefix, approved by their Technology Education advisor to fulfill their General Education requirements. Each major in Technology Education must complete at least 6 credits in each of the following areas: communication, production and transportation.

Professional Education Requirements

Technology Education majors are required to take SPED 315, EDSC 375, EDF 400 or 415, EDTE 316, EDSC 414 and 415, and RDG 440.

Admission to the Professional Program

Students must make formal application for admission to the Professional Program of Technology Education after completion of 45 credits in course work. At least 15 of these credits must be in TC or TE courses. Applications are available from the Dean of Education and Professional Studies, Barnard Hall, and must be filed prior to September 21 or February 21. Acceptance is prerequisite to taking TE 400, EDSC 375, 414 and 415, EDF 400 or 415, EDTE 315 and SPED 315. Students must maintain a minimum 2.50 grade point average in all technology courses. See School of Education and Professional

Studies, Admission to Professional Program for additional information.

VOCATIONAL-TECHNICAL EDUCATION COURSE OFFERINGS

Coordinator: S. Lesser (832-2265)

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	Intro. to Teaching VTE
VTE 116	Teaching VTE
*SPED 315	Intro. 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	Intro. 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 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 techni-

cal college and transfer directly to CCSU's School of Technology.

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

BIOMOLECULAR SCIENCES PATHWAY/DEGREE PROGRAM

The Biomolecular Sciences Pathway, for entry into Central Connecticut State University's undergraduate Bachelor of Science degree programs in Biomolecular Sciences and Biochemistry, consists of coursework in mathematics and the natural sciences: biology, chemistry, and physics.

Biomolecular Sciences Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Composition	3
English Literature	3
Philosophy or Fine Arts Electives	6
Western Civilization or U.S. History	3
Psychology, Sociology, or Anthropology	6
Economics, Geography, or Political Science	6
<i>Subtotal (maximum)</i>	<i>27</i>
Mathematics/Physical Science:	
Trigonometry	3
Calculus I	3 or 4
Physics I	4
Physics II	4
General Chemistry I	4
General Chemistry II	4
Organic Chemistry I	4
Organic Chemistry II	4
<i>Subtotal (minimum)</i>	<i>30</i>
Bioscience Electives:	
General Biology I	4
General Biology II	4
Major-Specific Electives (with laboratory)*	4-8
<i>Subtotal (minimum)</i>	<i>12</i>

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 TECHNOLOGY PATHWAY/DEGREE PROGRAM

The Engineering Technology Pathway prepares students for entry into the Engineering Technology department in CCSU's School of Technology. After completion of two years of initial study at a Community College and another two years at Central, the student will receive a Bachelor of Science degree with a major in any one of the three programs listed below. The civil, manufacturing and mechanical engineering technology programs are accredited by TAC of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202; phone: 410/347-7700. A minimum grade of "C" in the courses listed below will transfer into any of the five Engineering Technology programs currently offered at Central.

Engineering Technology Programs:

- Civil
- Manufacturing
- Mechanical

Engineering Technology Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Language (Freshman Composition)	3
Technical Writing	3
Public Speaking	3
English Literature	3
Philosophy, Fine Arts or English Literature	6
History	3
Economics, Geography, Political Science or History	3
Anthropology, Psychology or Sociology	3
<i>Subtotal (maximum)</i>	<i>27</i>
Natural Science/Mathematics:	
General Chemistry I with Laboratory	4
General or University Physics I with Lab	4
General or University Physics II with Lab	4
Statistics	3
Pre-calculus or Pre-calculus with Trigonometry	3 or 4
Calculus I or Applied Calculus I	4 or 3
Calculus II or Applied Calculus II	4 or 3
<i>Subtotal (minimum)</i>	<i>24</i>
Engineering Technology/Engineering Science:	
Applied Mechanics I (Statics)	3
Applied Mechanics II (Dynamics)	3
CAD: AutoCAD (Civil only)	3
CAD: CADkey (Other ET Programs)	3
Introduction to Computers	3
Computer Programming	3

Introduction to ET or Engineering	3
<i>Subtotal (minimum)</i>	<i>18</i>
Total credits	69

TECHNOLOGY PATHWAY/DEGREE PROGRAM

The Technology Pathway, for entry into CCSU's School of Technology or Charter Oak State College, consists of courses which provide for a bachelor of science degree from Charter Oak State College, with a minor in technology, or from Central in one more of the fields listed below. A minimum course grade of "C" and the hours of credit described below are required for continuing at CCSU's School of Technology or at Charter Oak.

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.

Technology Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:

English Language (Freshman Composition)	3
Public Speaking	3
English Literature	3
Philosophy, Fine Arts or English Literature	6
History and ECON 201	6
Geography, Political Science or History	3
Psychology or Sociology	3
<i>Subtotal</i>	<i>27</i>

Natural Science/Mathematics:

Intro. to Chemistry*	3
Intro. to Physics*	3
Statistics	3
Trigonometry	3
<i>Subtotal</i>	<i>12</i>

Technology/Management:

Technical Drafting/CAD	3
Introduction to Computers	3

Technical Writing	3
Mgt. Elective	3
Directed Electives	12
<i>Subtotal</i>	<i>24</i>

Total Credits 63

*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 Education

Program leading to certification to teach technology education in grades K–12 in the public schools of Connecticut. In addition to careers in public school teaching, technology education graduates may also function as instructors or supervisors in private and post-secondary schools, industry, government and rehabilitation programs.

Technology Education Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:

English Language (Freshman Composition)	3
Public Speaking	3
English Literature	3
Philosophy, Fine Arts or English Literature	6
U.S. History	3
Economics, Geography, Political Science or History	6
Psychology-Life Span Development	3
Anthropology, Psychology or Sociology	3
<i>Subtotal</i>	<i>27</i>

Natural Science/Mathematics:

Intro. to Chemistry	3
Intro. to Physics	3
Statistics	3
Trigonometry	3
<i>Subtotal</i>	<i>12</i>

Technology:

Technical Drafting/CAD	3
Introduction to Computers	3
Intro. to Energy Processing	3
Intro. to Material Processing	3
Electrical Energy	3
Mechanical Energy	3
Graphic Arts Industries	3
Directed Elective	3
<i>Subtotal</i>	<i>24</i>

Total Credits 63

The College of Technology offers students:

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

Technology Pathway Program

The CSU-CCSU Technology Pathway Program is an integrated curriculum allowing individuals to begin their studies at any CSU campus (Southern, Eastern or Western) and advance directly to any program in the School of Technology at Central Connecticut State University. The Pathway Program will provide the foundation or the initial two years of a bachelor of science degree.

The School of Technology at Central Connecticut State University offers the only programs of study in Technology Education, Industrial Technology and Engineering Technology in the Connecticut State University System. Each degree program has a variety of technical specializations designed to provide students with a balance of classroom learning (theory) and activity-based laboratory (practical application) courses. In addition, the School of Technology's cooperative education program provides opportunities for students to work with major industries in a variety of technical and engineering areas. Graduates of the programs enter the workforce with the knowledge and confidence needed to compete and succeed in today's industrial and technological marketplace.

This program provides a direct entry to the School of Technology at CCSU without loss of credit or having to repeat course work. A student can complete a minimum 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.

Cooperative Education is an academic program which integrates classroom study with career-related work experiences. Co-op work experiences are paid, full-time, six-month positions related to academic and career interests. Co-op is an optional and, in most cases, non-credit program.

CCSU's program, the largest in Connecticut and one of the largest in New England, combines five months of on-campus study with six months of paid Co-op employment. Thus, students apply textbook learning to on-the-job training. The money earned often helps students finance their University education.

Co-op students are assigned to a Cooperative Education coordinator who guides their career development and develops appropriate Co-op placements. In the Co-op Career Development Seminar students receive instruction in skills that make the difference in today's job market: résumé writing, interviewing techniques, career planning and job-seeking strategies.

Through participation in the Co-op program, students can graduate with up to two years of career-related work experience and, possibly, with a job offer. A sizeable number of 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.
- 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: 1) a place in the program; 2) sufficient time for the Co-op staff to develop appropriate Co-op positions; and 3) sufficient time for students to complete the Career Development Seminar prior to their work experience.

The Career Development Seminar

The Career Development Seminar is designed to teach students life-long career skills. They learn to write a résumé, interview effectively, make career decisions, explore occupations and discover where the jobs are in their field. This one-credit course is taught by the Co-op staff.

Cost and Eligibility

The Co-op program is available to all full- and part-time students in good academic standing, who have completed 45 credits. Currently, it costs \$400 per year to be enrolled in the Co-op program. Students are billed \$200 per semester.

For interdisciplinary programs in International and Area Studies, see page 105 of the catalog.

African-American Studies

F. Best, *Director* (832-2910 or 2817); African-American Studies Committee: D. Blitz, J. Buxton, C. Carter-Lowery, G. Emeagwali, W. Brown Foster, B. Johnson, M. Mentzer, S. Pease, W. Perry, E. Phillips, H. Salah-Din, R. White

The African-American Studies minor offers a broad curriculum dedicated to the study of Black life in the Americas and the Diaspora from 1350 to the present. The African-American Studies Program develops and coordinates an interdisciplinary curriculum. Its objectives are to encourage all students and faculty to examine the African-American experience, to facilitate a cultural and intellectual atmosphere on campus that will be favorable to such studies, and to develop a program of research and community service. The program also has a "nationally recognized" African-American lecture series, featuring nationally and internationally known scholars in the field of Black Studies.

The African-American Studies Center, located in Marcus White 101, has a lending library for students and faculty. In addition to the ongoing lecture series the program also hosts the traditional celebration of Black History Month during February with rich and diverse activities such as a film series, art exhibits and student debating contests.

Minor in African-American Studies

Students completing a minor in African-American Studies must have 21 credits, including AFAM 110; HIST 369 and 469; and PHIL 360 which is required of all students. In addition, students must have fifteen credits of electives which may be selected from the following courses: HIST 497 (African History Through Film and African-American Women's History); HUM 490 (African Civilization: A Voyage into the Past and Present); REL 361 (African-American Religion); PHIL 360 (African-American Philosophy); ART 100; ENG 212, 345; CRM 478 (Gender, Race and Crime); SOC 322; ANTH 200, 300, 316, 320, 352, 424; PSY 430; COMM

320 (African-American Speakers); IT 402 (Technology of African Americans).

American Studies

R. Todd, *Coordinator* (832-2622); C. Doyle, R. Dunne, S. Gilmore, E. Langhorne, V. Martin, H. M. Prescott, D. Truly, M. Warshauer

The American Studies minor gives students the opportunity to explore the diverse culture of the United States in an interdisciplinary context. In consultation with an American Studies advisor, students are encouraged to shape an individualized course of study to meet their own academic goals.

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

Minor in American Studies

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

1. ENG 210, ENG 212*, ENG 341, ENG 343, ENG 345*, ENG 448, HIST 261, HIST 330, HIST 331, HIST 369*, HIST 425, HIST 426, HIST 427, HIST 428, 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 262 and PS 110 and 6 credits from two of the three categories listed above.

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

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

G. Crundwell (832-2675), T.R. King (832-3560), *Co-coordinators*; J.V. Arena, T. Burkholder, M.A. Davis, N.M. Glagovich, Z. He, B. Hoopengardner, C.A. Jones, M.A. Kapper, K.A. Martin-Troy, J.P. Mulrooney, R. Troy, C.L. Watson, B.L. Westcott, Jr.

The B.S. 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. 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.

Major in Biochemistry, B.S. (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 121	General Chemistry I	4
CHEM 122	General Chemistry II	4
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	2
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 454/455	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). While no minor is required for the B.S. in Biochemistry, a Minor in Science may be elected with a C- or better in Related Requirement courses PHYS 121, and 122. These Related Requirement courses may also be counted to fulfill appropriate portions of the student's General Education Program.

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: 1) as a course requirement in BMS 190 and 290, 2) as a required component of independent student research projects, and 3) prior to application for graduation, as evidenced by submission of a "Portfolio Requirement Completed" form to the major advisor.

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

Hospitality and Tourism Studies

D. Truly, *Interim Director (832-2797)*;
R. Benfield, S. Chen, B. Greenfield,
A. Jackson, K. Koh, W. Perry, T. Rickard,
J. Weinberger

Hospitality and Tourism involves the business of attracting, transporting, lodging, entertaining, and providing food and beverages to people. It is one of the fastest growing segments in Connecticut's economy. This 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 B.S. 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.

Major in Hospitality and Tourism, B.S.

This 54-credit program consists of 21 credits in foundation courses in Business and Geography, 15 credits of required core courses, and 18 credits in either the 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; MGT 295; MIS 201; MKT 295

Tourism/Hospitality Core Courses (15 credits):

GEOG 450, 454; MKT 308; THS 410, 490

Tourism Studies Track

Students must take 18 credits of electives, selected in consultation with a faculty advisor. Recommended courses include: ENG 382; GEOG 430, 451, 453, 455; MKT 359, 497.

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.

Internet and Multimedia Studies

M. Triebwasser, *Program Coordinator* (Phone: 832-2970); S. Adair, J. Calvert, M. Gendron, J. Harmon, R. McCarthy, K. Ritzenhoff, B. Sponder

The goal of this program is to increase electronic literacy, develop sensitivity to the value implications of the technologies used in cyberspace, and lay the foundation for the future development of various areas of expertise.

A minor in IMS allows students to take courses in various departments on the technical skills needed to develop cyberspaces, such as multimedia computing and Web site development. It also involves them in courses in the social sciences and humanities which concentrate on the value implications of cyberspace. It is the intention of this minor to produce people who are both generally skilled technically and aware of the political and aesthetic values involved in the personal and societal application of these skills.

A major focus of this minor is a hands-on and apprenticeship approach to learning. As such, the capstone course in this minor is a Senior Project or Independent Study in which students work on a specific project, along with a mentor.

Minor in Internet and Multimedia Studies
18 credits, six of which must be at the 300 or 400 level, distributed as follows:

I. Core (6 credits):

IMS 110 and IMS 210.

II. Human Interactions in Cyberspace (3 cr.): Student will choose one course from the following (or an approved substitute): COMM 230, CS 210, CS 495, ENG 418, PHIL 335, PS 315, SOC 478.

III. Methodologies in Internet and Multimedia Development (3 cr.):

Student will choose one course from the following (or an approved substitute): CET 113, COMM 330, CS 110, CS 151, DES 100, EDT 490, GEOG 378, MIS 201, MKT 401, MUS 112.

IV. Advanced Study (3 cr.):

A second course approved by the Program Coordinator to be chosen from the courses listed under Categories II or III (or an approved substitute) intended to augment

the experience gained in the first course. This course may be an approved prerequisite to a listed course.

V. Capstone Experience (3 cr.):

Student, in consultation with the Program Coordinator, will choose one of the following: IMS 480, IMS 490 or a qualified senior project in a related department or program.

Peace Studies

C. Austad (Phone: 832-3101), D. Blitz (832-2916) (*coordinators*). Peace Studies Committee: M. Alewitz, A. Antar, W. Brown-Foster, G. El-Eid, N. Mezvinsky, N. Sadanand

Peace Studies is an interdisciplinary program concerned with the origins of war and the prospects for peace. Topics to be considered include just war theory, types of pacifism, the nature of wars, conflict resolution and the history of peace movements, deterrence theory, weapons of mass destruction, and problems of international security. The program offers students the opportunity to study conflicts and peace efforts in specific regions of the world and to produce a senior thesis on a topic of their choice.

Minor in Peace Studies

18 credits as follows:

PES 110, PES 410, and 12 credits from any of the following: ART 270, HIST 472, HIST 474, PES 111, PES 210, PES 310, PHIL 345, PS 235, PS 345, PS 380, PSY 202.

Religious Studies

J. McKeon (Philosophy), *Advisor*: F. Best (Philosophy), G. Gigliotti (English), A. Adams (Anthropology), N. Mezvinsky (History) (Phone 832-2915)

Minor in Religious Studies

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

1. Comparative Religion (REL 110);
2. Religious Texts (ENG 360, ENG 361);
3. Historical/Social Science (HIST 377, 378, 435, 436, 441, 469, 473; ANTH 440);

4. Philosophical/Religious Thought (PHIL 232, 250, 255, 275, 376, 492; REL 105, 250, 256, 257, 361, 492).

Urban Studies

To be announced, Coordinator (832-3137): C. Barrata, C. Carter-Lowery, A. Moran, E. Phillips, C. Pope, M. Triebwasser, A. Zottola

Urban Studies is an interdisciplinary field that combines theory and practice in addressing the major questions and issues of life in the city. Urban Studies explores the factors that shape the growth and development of cities as well as the city's role as an arena for human activities.

The Urban Studies minor provides students with the academic foundation necessary to understand the issues and problems confronting our urban areas. Beyond building understanding, the minor also gives students the tools necessary to engage in solutions to those problems.

Minor in Urban Studies

18 credits as follows: URS 300 and 15 credits from ANTH 300, 323, ECON 420, GEOG 439, 441, PS 230, 432, SOC 232, 332, URS 420, 430. Courses must be taken from at least three different departments.

Women's Studies

K. Hermes, K. Ritzenhoff, *Co-coordinators* (832-2818, 832-2692); *Advisory Committee*: E. Aaronsohn, A. E. Adams, J. DiPlacido, C. Doyle, M. A. Ertel, S. Gilmore, E. Godway, J. Greenbaum, J. Higgins, P. LaPuerta, K. Larsen, L. Levine, M. Levvis, P. Lisi, M. Mentzer, A. Morales, A. Moran, L. Perdue, C. Pope, H. M. Prescott, D. Stanley, G. Sunshine, L. Uribe, J. Weinberger, C. L. White, R. Wolff

Minor in Women's Studies

18 credits with at least nine credits on the 300-400 level, including WS 200, and 15 credits from *Theoretical* (PHIL 100*, 222, 382* WS 400), *Historical* (ESCI 218, HIST 330, 331, 335), *Cultural* (ANTH 350, ART 409*, COMM 435, ENG 215, 288*, 448*, 458*, 488*, HUM 250*), *Social* (COMM 495*, PS 241, PSY 448, 498*, SOC 240). At

least one course (three credits) must be taken from three of the four areas listed.

Note: Students whose needs are not met by available courses may take up to three credits of independent studies, pending approval of the appropriate department chair and the Women's Studies coordinator.

*Under section or topic as approved by the Women's Studies Advisory Committee

CCSU offers an interdisciplinary degree program in International Studies, with specializations leading to the bachelor of arts degree for students in Arts and Sciences.

Minors in African Studies, East Asian Studies, Latin American Studies, Slavic and East European Studies and European Union/Western European Studies are also offered.

Each student planning to major in International Studies should contact the International Studies Program Director (832-2126). Students planning a minor in a region, or those interested in a region as part of the B.A. major program, should contact the coordinator of the appropriate area studies program.

INTERNATIONAL STUDIES

MAJOR, B.A.

57 credits as follows:

Core Curriculum (12 credits)

IS 225 The World as a Total System

IS 475 Senior Project

and two of

GEOG 120 World Regional Geography

HIST 122 World Civilization II

PS 104 The World's Political Systems

Regional Specialization (15 credits)

Courses in the language, literature and social or behavioral science of a particular world region selected in consultation with a faculty advisor.

Modern Language (18 credits)

Courses in a single modern language or demonstration of competency in reading, writing, speaking and understanding of a single modern language equal to completion of the 226 level, as determined by a CCSU instructor of the language and/or the chair of the Modern Languages Department.

Directed Electives (12 credits)

Courses in either the Regional Specialization or a related area, or those designated International, or those labeled International Studies; selected in consultation with a faculty advisor.

Structured International or Multicultural Experience

At least one semester of faculty-supervised, in-depth exposure to another way of life.

Note: Students will be encouraged to select a Regional Specialization coinciding with

existing CCSU Area Studies programs, although a specialization from other world regions may be selected if desired and courses are available.

Note: The Modern Language selected must be related to the Regional Specialization.

Note: Students who complete the Modern Language component with fewer than 18 credits must take additional courses, in either the Regional Specialization and/or Directed Electives, selected in consultation with a faculty advisor.

Note: Ideally, International Studies majors will spend one academic year abroad. As an alternative, IS faculty will assist students to develop a local multicultural experience related to the student's academic track or regional specialization.

Note: A minor is not required for this major.

African Studies

C. C. Mate-Kole, *Director, Center for Africana Studies, and Coordinator, African Studies Program (832-3105)*; G. Alungbe, A. Antar, C. Austad, E. Baten, F. Best, W. Brown Foster, J. Buxton, C. Carter-Lowery, T. Darko, G. Emeagwali, P. English, S. Fafunwa-Ndibe, K. Harris, Maxine Howell, B. Johnson, P. Kyem, P. LeMaire, A. Moemeka, E. Newman-Phillips, S. Odesina, P. Osei, W. Perry, T. Rickard, S. Sogunro, R. T. White

Minor in African Studies

18 credits including HIST 375, 376, PS 421, 434 and 6 credits of electives as approved by the program coordinator.

Major

Students wishing to construct a major program in African Studies may do so using the framework provided by the B.A. in International Studies.

East Asian Studies

M. Jones, *Coordinator (832-2819)*; G. Altman, Y. Ju, K. H. Kim, C. S. Lien, J. McKeon, P. Petterson, X. Shen, S. Tomoda

Minor in East Asian Studies

18 credits of electives in East Asian courses, subject to approval of the coordinator. Courses used for a major may not be used to fulfill the requirements of the minor.

Major

Students wishing to construct a major program in East Asian Studies may do so using the framework provided by the B.A. in International Studies.

European Union/ West European Studies

T. Rickard, *Coordinator (832-2126)*; L. Auld, R. Benfield, M. Charkiewicz, D. Engwall, P. Lapuerta, A. Morales, M. Passaro, C. Pesca, L. Petit, P. Petterson, K. Ritzenhoff, L. Uribe

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 six additional credits of language, culture, or other suitable regional courses, in consultation with an advisor. Students achieving the language competency with fewer than six 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.

Major

Students wishing to construct a major program in European Union/West European Studies may do so using the framework provided by the B.A. in International Studies.

Latin American Studies

A. Garcia-Lozada, *Coordinator and Director of the Center for Caribbean and Latin American Studies (832-2895)*; A. Adams, W. Brown-Foster, G. Caliendo-Reed, F. Donis, R. Fernandez, M. A. Mahony,

G. Mejía, S. Mendez-Mendez, C. Pope,
A. Richard, M. Salinas, L. Uribe

A brochure describing the programs in depth is available from the coordinator.

Minor in Latin American Studies

18 credits including GEOG 434, 436; HIST 381, 382; and 6 credits from the following: ANTH 428; ECON 435; GEOG 459*; HIST 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.

Major

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

Middle Eastern Studies

A. Antar, *Coordinator* (832-2932);
F. Abdollahzadeh, A. Ayalon, K. Beyard,
A. Cannella, G. El-Eid, G. Emeagwali,
J. McKeon, N. Mezvinsky, T. Rickard,
N. Sadanand

Minor in Middle Eastern Studies

18 credits including HIST 472, PS 434, 439 and 12 credits from HIST 473, 474, PS 339, 439, 491.

Major

Students wishing to construct a major program in Middle Eastern Studies may do so

using the framework provided by the B.A. in International Studies.

Slavic/East European Studies

R. Benfield, *Coordinator* (832-2879);
G. Altman, J. Bergman, M. Biskupski,
M. Erdmans, I. Gotchev, P. Karpuk,
D. Kideckel, J. Strzemien, E. Wolynska

Minor in Slavic/East European Studies

18 credits, including at least 9 selected from the following: ANTH 426, GEOG 448, HIST 348, 356, 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).

Major in Russian Studies

Students wishing to construct a major program in Russian Studies may do so using the framework provided by the B.A. in International Studies. For a sample program please contact the coordinator.

Major in Slavic/East European Studies

Students wishing to construct a major program in Slavic and East European Studies may do so using the framework provided by the B.A. in International Studies. For a sample program, please contact the coordinator.

Special Studies Major

With the help of an academic advisor, an undergraduate student may design a major to fit his or her own interests and needs. A Special Studies major must consist of 36–42 credits if a conventional minor is taken, or 54–60 credits if no minor is taken. At least half of the program must consist of 300- or 400-level courses. A proposal for a Special Studies major will only be considered when it is clearly shown that no present major offered by the University meets the same need. The major will consist of existing courses, and all academic requirements of the University, as well as all course requirements, including prerequisites must be met. All Special Studies programs total a minimum of 122 credits.

To be eligible for such a Special Studies major leading to a B.S. or B.A. degree, the student must be in good standing. The application must be approved by a faculty advisor, chairs of departments from which there are three or more courses in the major and the dean of the school of the advisor. Applications normally should be filed prior to the completion of 60 credits. The student must have completed at least 12 credits at CCSU or have transferred at least 30 credits prior to filing.

Approval of Special Studies majors is by a majority of a committee composed of the chair of the Curriculum Committee; the chairs of the Arts and Sciences, Business, Education and Professional Studies and Technology subcommittees; and the Dean of the School of Arts and Sciences or his or her representative. Information about Special Studies programs in all four schools is available in the office of the Dean of Arts and Sciences.

Intensive English Language Program

The Intensive English Language Program (IELP) offers full-time and part-time English language and American culture instruction to international students and faculty, foreign professionals, and members of the Connecticut community.

The IELP is dedicated to ensuring that students have a positive experience. 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 138, at 860-832-3376 or IELP@ccsu.edu.

Honors Program

The Honors Program provides an interdisciplinary, team-taught approach to General Education for intellectually motivated and academically superior students. The program is open to all qualified students, regardless of major. Graduating high school students, students in their first year at the university, high school graduates returning from work or family responsibilities, and transfer students from community colleges or other universities are eligible to apply. Applicants must satisfy writing and interview requirements. A limited number of full or half merit scholarships are available; for more information on scholarships, please refer to the Financial Aid section of this catalog.

The Honors Program is divided into four general areas: Western Culture, Science and Society, World Cultures and the Writing and Research component. All Honors Program courses satisfy general education requirements, with modal and area restrictions where noted. Honors students are required to complete the following 36 credits of courses, which are offered over a three year period and are available only to Honors Program students.

Western Culture

- HON 110 Western Culture I
- HON 210 Western Culture II: Topics in Western Culture
- HON 250 Western/World Culture III: Comparative Topics

Science and Society

- HON 120 Science and Society I
- HON 220 Science and Society II: Social Sciences and Society

World Cultures

- HON 130 World Cultures I
- HON 230 World Cultures II: Topics in World Cultures

Writing and Research

- HON 140 Writing and Research I
- HON 440 Writing and Research II
- HON 441 Writing and Research III
- HON 442 Writing and Research IV: Thesis Workshop

Successful completion of the entire Honors curriculum satisfies all the student's general education requirements, with the exception of Skill Areas II, III, IV, lab science requirement and any course requirements set by individual major programs or certifications.

Honors Program students may choose to graduate without a minor. Students who complete the Honors Program with a grade-point average of 3.20 or higher for their honors courses and for all their university courses will receive the designation "Honors Program Scholar" on their diploma. Inquiries should be addressed to Dr. Kristine Larsen, director of the Honors Program, Department of Physics and Earth Sciences, Copernicus Hall, telephone 832-2938 or e-mail Larsen@ccsu.edu. Further information on the program is available at its Web site: <http://www.ccsu.edu/honors>.

Pre-Professional Programs

Pre-Law

Students intending to apply to law school should consult with one of the pre-law advisors early in their academic careers, and no later than the junior year.

Since law schools do not prescribe a particular academic program, students considering a career in law may select any undergraduate major. Information regarding academic planning and requirements for application to law school is available from the Pre-Law Advisor, Antonia Moran, Political Science, and also from Kathleen Bantley, Criminal Justice; Katherine Hermes, History; Brian O'Connell,

Philosophy; 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, 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 (832-2657), and Dr. Cheryl Watson, chair of the Pre-Health Professional Advisory Committee, Department of Biomolecular Sciences, NC 344 (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.

Central-UConn Exchange Program

Under certain conditions, Central Connecticut State University students may take courses at the University of Connecticut or its branches without paying additional fees. Only courses not offered at Central Connecticut State University may be taken on this basis.

Admission to the courses will be on a space-available basis within pre-established class limits. To be eligible, Central Connecticut State University students must have paid maximum tuition and fees for full-time study. University officials must approve the student's qualifications for taking the course in question.

Interested students may contact their academic dean for further information.

Hartford Consortium for Higher Education

This program, sponsored by the Hartford Consortium for Higher Education, allows undergraduate students at CCSU to cross-register for courses at other local campuses

for selected courses in language, religious studies, urban studies, and women's studies. Courses are available at Capital Community College, Hartford Seminary, Saint Joseph College, Trinity College, University of Connecticut-Hartford, Saint Thomas Seminary, and University of Hartford. 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.

OnlineCSU

OnlineCSU is the virtual classroom of the Connecticut State University System (CSU) — Central, Eastern, Southern and Western. Responding to the emerging trends of learning-on-demand, CSU designed *OnlineCSU* to ensure that the education it has traditionally made available in the classroom can now be offered without regard to time, distance or circumstance.

Online learning, also known as distance education, takes place using computer technology and the Internet when the faculty and students are separated by distance, i.e., not in the same room. Within semester limits, *OnlineCSU* offers asynchronous learning, which means the instructor and the students need not be in the same room at the same time or on the computer at the same time. This means students may sign on any time, 24 hours a day, seven days a week. Except where the faculty have set test dates, chat room sessions, etc., students do not need to sign on at the same time as other students or at the same time as the instructor.

OnlineCSU offers both graduate and undergraduate courses, and new courses are added every semester. CSU faculty, who design and teach the courses, are at the core of this distinctive learner-centered program. CSU campuses are fully accredited, and courses offered through *OnlineCSU* are approved for credit by the university offering

the course. Credits earned online are eligible for credit towards a degree.

Full-time and part-time matriculated students (students who have formally applied and been admitted to a CSU university) who already have a faculty advisor should continue to consult with that advisor regarding online courses. Non-matriculated students do not need a faculty advisor to register for an online course.

For information on *OnlineCSU* courses, stop by the *OnlineCSU* site at www.OnlineCSU.net.

Reserve Officers Training Corps (ROTC)

Army and Air Force ROTC programs are offered to Central Connecticut State University students at the University of Connecticut's main campus at Storrs.

Air Force ROTC. Without paying extra tuition, Central Connecticut State University students may pursue commissions in the Active, Reserve, or Guard forces of the Air Force. The 100- and 200-level courses carry no military obligation and are open to all students. The 200-level courses require prerequisites and permission of the appropriate instructor.

Scholarships are available and pay up to annual full tuition and fees, plus tax-free stipends of \$250 to \$400 per month, and \$600 per year toward books.

Interested students should contact the Air Force ROTC office at 860/486-2224 or visit the Web site at www.airforce.uconn.edu.

Army ROTC. Central Connecticut State University students may pursue commissions in the Active, Reserve, or Guard forces of the Army. 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.

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 <http://147.248.153.211/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 \$292 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 Captain Eric Refsnider at (860) 486-6081, email eric.refsnider@uconn.edu, or visit www.armyrotc.uconn.edu.

AIR FORCE AEROSPACE STUDIES

Aerospace Studies I. Both semesters. One credit each semester. One one-hour class period and one two-hour leadership laboratory period.

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems and an introduction to communication skills.

Aerospace Studies II. Both semesters. One credit each semester. One one-hour class period and one two-hour leadership laboratory period.

A survey course designed to facilitate the transition from Air Force ROTC cadet to Air Force ROTC officer candidate. Featured topics include: Air Force history from the early 20th Century through today, Air Force leaders, group leadership problems and continuing application of communication skills.

Aerospace Studies III. Both semesters. Three credits each semester. Three-hour class period and one two-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies I and II, or six weeks field training and consent of Professor of Aerospace Studies.

A study of leadership and quality management fundamentals, professional knowledge, leadership ethics and communication skills required of an Air Force officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

Aerospace Studies IV. Both semesters. Three credits each semester. Three-hour class period and one two-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies III.

Examines the national security process, regional studies, advanced leadership ethics and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty and current issues affecting military professionalism. Within this structure, continued emphasis is given to the refinement of communication skills.

AVIATION GROUND SCHOOL

AFR 201. Aviation Ground School. Three-hour class offered each semester.

Designed for private pilot applicants and students interested in acquiring an understanding of the principle of flight. Provides the necessary aeronautical knowledge for students preparing for the Federal Aviation Administration written test for private pilot certification. Meets the requirements for pilot applicants who must present evidence showing completion of a course of study (required by Federal Aviation regulations). One three-hour class period per week for twelve weeks.

MILITARY SCIENCE

MISI 131. General Military Science I-A. One credit. One class period.

This introductory course focuses on the organization of the Army, values and ethical decision making, leadership doctrine and communication. There are also opportunities for experience in land navigation, physical fitness, field training exercises, and drill and ceremony. *No military obligation.*

MISI 132. General Military Science I-B. One credit. One class period.

This introductory course focuses on the leadership development program, squad tactics, writing in the Army style, land navigation, after-action reviews, and the duties of officers, warrant officers and NCOs. Students may also participate in land navigation labs, physical fitness training, field training exercises, and drill and ceremony. *No military obligation.*

MISI 145. General Military Science II-A. One credit. One class period.

This intermediate-level course focuses on operations orders, squad movement techniques, leadership

doctrine, officer and NCO duties, risk assessment, and training the individual and the team. There are opportunities to participate in land navigation labs, physical fitness training, field training exercises, and drill and ceremony. *No military obligation.*

MISI 146. General Military Science II-B. One credit. One class period.

This intermediate-level course focuses on counseling and motivation techniques, leadership doctrine, squad tactics, resolving ethical dilemmas, land navigation, military customs and traditions, and briefing on military history. There are also opportunities for experience in land navigation, physical fitness, field training exercises, and drill and ceremony. *No military obligation.*

MISI 252. General Military Science III-A. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Leadership principles, techniques and the responsibilities of command. Military instruction techniques. Includes student class presentations. *In all cases, permission of the Professor of Military Science is required.*

MISI 253. General Military Science III-B. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Dynamics of small unit tactics and branches of the Army. *In all cases, permission of the Professor of Military Science is required.*

MISI 297. General Military Science IV-A. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Army staff organization, unit administration and management, logistics, military intelligence, leadership seminar, the international system and strategic doctrine. *In all cases, permission of the Professor of Military Science is required.*

MISI 298. General Military Science IV-B. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Military law, obligations and responsibilities of an officer, contemporary human problems and a staff ride. *In all cases, permission of the Professor of Military Science is required.*

Study Abroad Programs

Central Connecticut State University can place students to study for CCSU credit almost anywhere in the world through a variety of study abroad programs. International experiences may range from two weeks to one year in duration. CCSU offers two distinct types of programs — semester or academic year study abroad programs and courses abroad taught by our own faculty.

The study abroad immersion programs allow CCSU students to enroll to study at one of our international partner universities, often on an exchange basis. Exchange programs are arranged so students may pre-pay normal tuition, and in some cases housing costs, to CCSU while exchanging places with an international student. Full semester or academic year study abroad programs are currently available in the United Kingdom, Spain, France, Germany, Poland, Sweden, Ghana, Puerto Rico, Jamaica, Barbados, Japan, China, Korea, and the Turkish Republic of Northern Cyprus. Financial aid applies to all CCSU programs and scholarships are also offered on a competitive basis. With proper planning, all course work earned overseas will apply toward graduation requirements.

To plan a study abroad program, contact the Study Abroad Coordinator in the George R. Muirhead Center for International Education, Barnard Hall, Room 138 (832-2043). April 1 is the program application and scholarship deadline for all programs taking place in the upcoming academic year. Specific program information and the dates of regularly scheduled information sessions can also be found on the CIE website <http://www.ccsu.edu/cie>.

Students may also take an individual course taught abroad by a CCSU professor during the Winter or Summer Sessions. Students may choose from a dozen courses offered each year by faculty in a variety of disciplines and countries. Foreign language proficiency is generally not required. Registration for courses taught abroad in Summer or Winter Session takes place at the Enrollment Center/Office of Continuing Education, Willard Hall. Students must also declare their participation with the George R. Muirhead Center for International Education.

COURSE DESCRIPTIONS

Note: Symbols referring to course cycling information are: (O) = odd year, (E) = even year, no symbol = course offered both semesters of the academic year. [c] = computer-intensive course. See page 47.

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 Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

AC 210 Principles of Industrial Accounting 3
An introductory study of the measurement of financial position, net income, manufacturing costs, cost behavior, direct costing, standard costs, and budgeting. Emphasis on the managerial uses of accounting data in industry. IT majors only.

AC 211 Introduction to Financial Accounting 3
Prereq.: MATH 101 (C- or higher). Basic concepts and practice of accounting's role in providing information to external users to aid their decision-making activities. Topics include the preparation of financial statements and accounting for cash, receivables and payables, inventories, prepaid expenses and long-term assets. Business majors cannot receive General Education credit for this course. [c]

AC 212 Introduction to Managerial Accounting 3
Prereq.: AC 211 (with grades of C- or higher). Basic concepts and practice of accounting's role in providing information to managers to assist in their planning, control, and decision-making activities. Topics include cost accounting systems, cost behavior relationships, analysis for managerial decisions, and the budget process.

AC 300 Foundations of Accounting: The Profession, Processes & Analysis 3
Prereq.: FIN 295 (may be taken concurrently), and AC 212 (with grades of C- or higher). Develop understanding of accounting profession and role in society. Review of the accounting cycle and analysis of enterprise economic resources, 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 (with grades of C- or higher). Development of principles of cost management systems. Emphasis on job-order, process, activity-based, operations, just-in-time and standard costing procedures. Focus on accounting system choices and the implications of cost information for managing and reporting costs.

AC 311 Accounting Applications 3
Prereq.: AC 212 (C- or higher). Current financial reporting processes, issues and applications are studied. Emphasis on bookkeeping processes and technology. Irregular.

AC 312 Financial Reporting I 3
Prereq.: AC 300 (with grade of 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 (taken within five years) with a grade C- or higher. Designed to further prepare students for professional competency. Topics include accounting for

liabilities, stockholders' 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 (with grades of 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 is also emphasized. [c]

AC 401 Introduction to Income Taxation 3
Prereq.: LAW 250 and AC 212 (with grades of C- or higher). Analysis of the basic framework utilized in measuring and reporting taxable income of individuals and business entities including gross income, deductions, tax rates, credits, timing issues and procedural matters.

AC 402 Fundamentals of Corporate Taxation 3
Prereq.: AC 401 (C- or higher); for graduate students, permission of chair. Analysis of federal tax law relating to the formation, operation, and liquidations of corporations including dividend distributions and stock redemptions.

AC 403 Estate Taxation & Probate Accounting 3
Prereq.: AC 401 (C- or higher). A basic course in estate taxation and probate accounting. Area coverage includes: post-mortem tax planning, examination of the U.S. Estate & Fiduciary tax returns, and probate accounting rules. Irregular.

AC 404 Taxation of Business Pass-Through Entities 3
Prereq.: AC 401 (C- or higher); for graduate students, permission of chair. Analysis of federal tax law relating to (1) the formation, operation, and liquidation of partnerships and LLCs including current distributions; and (2) the election, operation, and termination of Subchapter S corporations. Spring.

AC 407 Advanced Accounting 3
Prereq.: AC 313 (C- or higher); for graduate students, permission of instructor. 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.

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, AC 340, STAT 201 with grades of 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, AC 340, STAT 201 with grades of C- or higher; graduate students require permission of department chair. Role and responsibilities of internal auditors in financial auditing. Understanding the need and role of governmental auditing. Topics include operational audits, compliance audits, performance audits.

AC 490 Current Accounting Topics 3
Prereq.: Permission of instructor; for graduate students, permission of chair. Seminar course that will focus on current topics in financial accounting, tax, managerial

accounting, accounting systems. Course content will vary from semester to semester. May be repeated with different topics for a maximum of 6 credits. Irregular.

AC 497 Independent Study in Accounting 3
Prereq.: Senior standing and permission of instructor. Research-oriented project in a special area of accounting. On demand.

ACTUARIAL SCIENCE

ACTL 335 Theory of Interest 3
Prereq.: MATH 152. Theory and applications of the theory of interest. Topics include simple and compound interest, installment buying, annuities certain, sinking funds, amortization, depreciation, bonds, and related securities. Fall. (E)

ACTL 465 Actuarial Models I 4
Prereq.: STAT 315. Life contingency topics including survival models and life tables, net premium and reserve calculation including an introduction to multiple life and multiple decrement models. Students will not receive credit for both ACTL 465 and ACTL 565. Fall. (O)

ACTL 466 Actuarial Models II 4
Prereq.: STAT 315. Topics related to risk theory including frequency and severity of losses, approaches to calculation of the aggregate loss distribution, and estimation of the probability of ruin. Students will not receive credit for both ACTL 466 and ACTL 566. Spring. (O)

ACTL 480 Topics in Actuarial Science 1 TO 3
Prereq.: Permission of instructor. Topics chosen from theory of interest, risk theory, demography, and graduation. Spring. (E)

ACTL 481 Review-SOA/CAS Course I 3
Review and extension of the principles of calculus and probability as related to the material on the SOA/CAS Course 1 exam. Spring.

ACTL 482 Review-SOA/CAS Course II 3
Prereq.: ACTL 335 and permission of instructor. Review and extension of the principles of theory of interest, economics, and finance as related to the material on the SOA/CAS Course 2 exam. Spring. (O)

AFRICAN-AMERICAN STUDIES

AFAM 110 Introduction to African-American Studies 3
Interdisciplinary survey of African-American experience from pre-colonial Africa to today, focusing on key figures and on discussion of a wide range of contemporary issues. Fall. Study Area II [I]

AMERICAN STUDIES

AMS 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.

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

ANTH 150 Introduction to Archaeology 3
Survey of methods used in the acquisition, analysis and interpretation of archaeological data and how those data are used in culture reconstruction. Study Area III

ANTH 151 Laboratory in Introductory Archaeology 1
An introductory archaeology laboratory course to accompany, or follow, ANTH 150. During the semester four full days of field and/or lab work are required, ordinarily on weekends. Not open to students who have taken ANTH 450.

ANTH 160 Introduction to Biological Anthropology 3
Introduction to the anthropological study of the human species. Course will cover humans as members of the primate order, human genetics, evolution and variation, stressing anthropological perspective of interaction of physical, environmental, and cultural factors. Study Area III

ANTH 170 Introduction to Cultural Anthropology 3
Human ways of life and how to investigate them. Introduces basic skills and knowledge necessary for the description, analysis, and understanding of cultures. Study Area III [I]

ANTH 200 Dimensions of Diversity and Inequality 3
Cross-cultural examination of human diversity, focusing on class, race, gender, and ethnicity. Consideration of the ways that cultural differences figure in the development of social, political, and economic inequality. Study Area III

ANTH 210 The Ancient World 3
A scientific examination of the mysteries of the ancient world. Astronomical, mathematical, architectural, and medical achievements of prehistoric peoples are considered, as well as possible explanations for these, ranging from ancient astronauts to human ingenuity. Fall. Study Area III

ANTH 215 Before History 3
The human past before the development of writing. Investigates the archaeology of the first four million years of human existence from our earliest upright ancestors to the evolution of complex civilization. Spring. Study Area III

ANTH 265 Human Evolution 3
Prereq.: ANTH 140 or 160 or permission of instructor. The story of the human species from the earliest primate to modern Homo sapiens. Includes basic genetics, evolutionary theory, and skills for studying the fossil record. Fall. Study Area IV

- ANTH 300 City Life & Culture 3
Exploration of the historical and contemporary development of urban spaces in the United States and Hartford area. Development of diverse cultural identities through neighborhood, social and, religious institutions will be examined. Spring. (O)
- ANTH 316 Archaeology of Africa 3
Examines pre-historic and historic period of Africa via archaeological, documentary, and oral historical data. Spring. (O)
- ANTH 318 New England Prehistory 3
Prereq.: ANTH 140 or 150 or permission of instructor. An examination of the pre-historic people of New England through analysis of fragmentary remains of their villages, burial grounds, and trash deposits. Focus will be on sites excavated by the Anthropology Department at Central Connecticut State. Spring. (E)
- ANTH 320 African Diaspora Archaeology 3
Examination of early African diaspora life via analysis of archaeological remains. Consideration of issues such as diversity of populations, health and diet, and labor conditions. Spring.
- ANTH 322 Historical Archaeology 3
Anthropological study of Euro-American cultural history, using documentary and artifactual data to interpret changing cultural patterns in post-contact New England. Specialized techniques of document research, field excavation and artifact analysis in historical archaeology are studied. Fall. (O)
- ANTH 323 Urban Archaeology 3
Cross-cultural examination of the archeology of urban life. Views the nature of urban centers and populations of the past and their relation to the social systems in which cities are located. Irregular.
- ANTH 324 Archaeology of the State 3
Discusses the forces leading to the emergence of the state in both the distant and more recent past. Focuses on prehistory and early history of the world's first complex civilizations. Irregular.
- ANTH 325 Human Ecology 3
Prereq.: 100 level anthropology course or permission of instructor. Explores the relationship between humans and their environments. How humans have changed the face of the earth and to what extent different environments have influenced human biological and cultural evolution. Spring.
- ANTH 329 Experimental Archaeology 3
Prereq.: ANTH 150 or permission of instructor. An investigation of the techniques used by archaeologists in the reconstruction of prehistoric technology. This course will include actual experiments in tool manufacture and use. Fall.
- ANTH 330 North American Prehistory 3
Surveys the pre-historic past of the North American continent. Begins with the archaeology of the earliest human settlement and continues until the period of European contact in the sixteenth and seventeenth centuries A.D. Fall. (O)
- ANTH 339 Work and Culture 3
A cross-cultural exploration of humanity as creator and tool user. The nature of work, innovation, invention, and the beliefs and values surrounding them in various cultures. Spring. (E)
- ANTH 345 Laboratory in Biological Anthropology 3
Methods, skills and techniques of biological anthropology. Includes exercises in genetics, human biological variation, pedigree analysis, adaptability, non-human primates, human skeletal anatomy and the analysis of skeletal remains for fossils and forensic studies. Fall. (O)
- ANTH 350 Men and Women in Different Cultures 3
Cross-cultural, historical overview of gender differences. Consideration of gender biases in social science research. Students will examine relations between men and women in different societies to better understand such relations in their own lives. Spring.
- 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 370 Applying Anthropology 3
Views methods and techniques to apply anthropological knowledge for practical results. Examines role of anthropology in medicine, education, social service, and the development and implementation of public policy in the U. S. and cross-culturally. Fall.
- ANTH 374 Field Research Methods 3
Examines field research methods with focus on qualitative techniques such as participant-observation, applied and action research, and ethnographic interviewing. Quantitative techniques include time budget analysis and single subject design. Spring.
- ANTH 375 Anthropological Data Analysis 3
Prereq.: STAT 104 or equivalent. Investigation of techniques in numerical analysis of anthropological data. Covers statistical methods of correlation, spatial analysis, and factor analysis. Focuses on the application of various statistical methods to actual anthropological data. Anthropology majors only. Spring.
- ANTH 422 Native Americans 3
Native American cultures, their distinct life ways and contemporary problems. Fall. [I]
- ANTH 424 Peoples and Cultures of Africa 3
Samples the diversity of African peoples, their cultures and related social relations. Primary focus on colonial and contemporary life, African liberation movements, and the influence of global political economy on life in modern Africa. Fall. (E) [I]
- ANTH 426 People and Cultures of Eastern Europe 3
A survey of culture in the nations of Eastern Europe concentrating on their contemporary aspects. Spring. (E) [I]
- ANTH 428 Cultures of Latin America 3
Prereq.: ANTH 140 or ANTH 170 or SOC 110. Introduction to modern and pre-Colombian societies in Latin America. Objectives include tracing the historical roots of social and economic relations in Latin America today, and the diverse responses Latin Americans have made and are making to rapid social change. Fall. [I]
- ANTH 430 Theories of Culture 3
Prereq.: ANTH 140 or 170 or permission of instructor. A historical survey of major schools of thought in socio-cultural anthropology. Includes critical analysis of Evolutionist, Historicist, Functionalist, Structuralist, Interpretive, and Marxist explanations with focus on post-1960s period. Fall.
- ANTH 433 Independent Study in Anthropology 1 TO 3
Prereq.: Senior standing and permission of department chair. Directed study in Anthropology. On demand.
- ANTH 437 Internship in Anthropology 3
Prereq.: Permission of instructor and written acceptance of sponsoring organization. Anthropologically relevant work experience in an appropriate local, national, or international venue. Includes consultation with faculty, analysis of related resources, and preparation of final report. On demand.
- ANTH 440 The Supernatural 3
A study of the beliefs in gods and spirits, visions, rites relating to beings and powers of other realms, and the effects of religion, magic, and witchcraft on human lives. Contrasts diverse forms of spirituality with varieties of naturalistic, materialistic, and atheistic perspectives. Fall.

- ANTH 445 Folklore and Myth 3
The characteristics, meanings, and functions of myths, legends, heroic epics, fairy tales, animal fables, proverbs, riddles, toasts, jokes, and graffiti. From the folklorist and anthropological perspectives. Spring. (O)
- ANTH 450 Archaeological Field School 3 TO 6
Provides instruction in survey techniques, mapping, scientific excavation, photographic and laboratory skills and analysis. Field schools are operated in both historical and prehistorical archaeology. Enrollment is limited. Send letter of application to department. May be repeated. Summer.
- ANTH 451 Field School in Cultural Anthropology 3 TO 6
Prereq.: Permission of instructor. Development of qualitative research skills central to cultural anthropology through language study, home stays, seminars, speakers, and excursions. Normally involves travel outside the United States. Irregular. [I]
- ANTH 465 Theories of Human Evolution & Behavior 3
Prereq.: ANTH 140 or 160 or permission of instructor. Examination of major schools of thought in biological evolution, with special emphasis on their application to human behavior, from the pre-Darwinian period to sociobiology. Spring. (E)
- ANTH 470 Anthropology and Modern World Issues 3
Prereq.: ANTH 140 or SOC 110 or 111, or permission of instructor.
Anthropological approaches to understanding and addressing contemporary world problems, such as ecological degradation, population, underdevelopment, war and diplomacy, and cultural extinction. Fall. (E)
- ANTH 475 Topics in Anthropology 3
Examination of selected topics in Anthropology. Irregular.
- ANTH 490 Senior Thesis 3
Prereq.: One course from ANTH 329, 345, 370, 374, 450, 451, 470; and one course from ANTH 433, 437. Semester-long supervised research and thesis preparation, including in-class discussion and oral presentation. Fall.
- ## ART
- ART 100 Search in Art 3
Introduction to nature and structure, processes and implications of selected topics in fine and applied arts. Titles and contents may vary from section to section. Study Area I
- ART 110 Introduction to Art History 3
General survey of historical development of visual arts in 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
Formerly ART 416. 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
Introductory course in black-and-white photography using a 35 mm camera. Includes contact printing, printmaking and enlarging, developing of film, and laboratory techniques. Photography as an art form of aesthetic choices is emphasized. Camera required. Fall. Study Area I
- ART 250 Watercolor Painting 3
Prereq.: ART 120 and 130. Styles and techniques of painting in transparent and opaque watercolors, with emphasis on individual creative expression. Study Area I
- ART 252 Painting I 3
Prereq.: ART 130. Exploration of techniques of painting in still life, landscape, and creative composition. Study Area I
- ART 260 Ceramics I 3
Functional and non-functional design in clay and glaze using various techniques. Study Area I
- ART 261 Sculpture I 3
Prereq.: ART 124. Introduction to creative sculpture: modeling, carving, constructing, and assembling. Clay, firebrick, mass-produced objects, and plaster will be used to develop figurative, abstract, and non-objective sculpture. Study Area I
- ART 263 Crafts I 3
Creative structuring of materials and ideas into art forms through the use of tools and processes. Open to majors only.
- ART 264 Design-Handicraft Materials and Techniques I 3
Prereq.: ART 120 or 130. Varied handicrafts and materials are included. May not be substituted for ART 263. Study Area I
- ART 270 Mural Painting 3
Prereq.: ART 252 or permission of instructor. Introductory studio course of mural painting techniques - students develop, organize and execute group and individual public works. Includes study of the history of public art and contemporary trends in mural painting.

- ART 301 Art Education Theory and Practice I 3
Prereq.: ART 120, 130, 112, 252, 260, 240, or permission of instructor.
Contemporary principles and practices in education through art in the elementary schools. Theories, materials, and processes applicable to these levels will be explored and evaluated. Field experience required. Open to Art Education majors only. [c]
- ART 302 Pre-Practicum in Art Education 1
Prereq.: ART 301 and admission to the Professional Program in teacher education. Taken concurrently with ART 303. Eight-week pre-student teaching requirement involving on-site classroom visits to assist with and observe a variety of public school settings accompanied by seminars. Reflective journaling, field reports, and resource development in art education are required. [c]
- ART 303 Practicum in Art Education I 2
Prereq.: ART 301 and admission to the Professional Program in teacher education. Taken concurrently with ART 302. Actual teaching experience in CCSU's Saturday Art Workshop as a pre-student teaching requirement, accompanied by weekly seminars. Lesson planning is required. Open to Art Education majors only.
- ART 324 Illustration II 3
Prereq.: ART 224. A successful portfolio review is required before enrollment. Continuation of Illustration I.
- ART 341 Intaglio I 3
Prereq.: ART 240. A successful portfolio review is required before enrollment. Investigations in hardground, softground, aquatint, spitbite, sugarlift, drypoint, and monotype procedures using single and multicolor applications. Spring.
- ART 343 Silkscreen I 3
Prereq.: ART 240. A successful portfolio review is required before enrollment. Single and multicolor water-based explorations in the following stencil techniques: photo emulsion, paper, tape, screen filler, fluid drawing and 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. [c]
- ART 348 Video Art I 3
Prereq.: COMM 330. A successful portfolio review is required before enrollment. Use of videography to explore experimental art-making possibilities. Production of video art projects and examination of the aesthetics and history of video as an art medium. Fall. [c]
- ART 349 Media Arts I 3
Prereq.: ART 448 and 347. A successful portfolio review is required before enrollment. Continuation of ART 348. Digital manipulation of video as a studio medium in terms of its potential for subjective expression. Creation of video art projects and examination of the aesthetics and history of the medium. Spring. [c]
- ART 352 Painting II 3
Prereq.: ART 252. A successful portfolio review is required before enrollment. Continuation of Painting I.
- ART 353 Painting III 3
Prereq.: ART 352. A successful portfolio review is required before enrollment. Continuation of Painting II.
- ART 360 Ceramics II 3
Prereq.: ART 260. A successful portfolio review is required before enrollment. Continuation of ART 260, with emphasis on wheel skills and glaze calculation.
- ART 361 Sculpture II 3
Prereq.: ART 261. A successful portfolio review is required before enrollment. Continuation of Sculpture I.
- ART 362 Sculpture III 3
Prereq.: ART 361. A successful portfolio review is required before enrollment. Further refinement of a particular sculpture theme via materials and techniques.
- ART 366 Handwrought Jewelry 3
Prereq.: ART 120 or 130. A successful portfolio review is required before enrollment. The basic principles of handwrought jewelry construction will be explored with emphasis on use of materials, tools, and processes as they may be utilized in a simple studio setup.
- ART 400 Art Education Theory and Practice II 3
Prereq.: ART 303 and admission to the Professional Program in teacher education. Previously ART 300. Contemporary theory and methods for art teachers of children in secondary grades. Comprehensive curriculum planning, materials and processes, and evaluation of teaching methods. Field experience required. Open to Art Education majors only. [c]
- ART 401 Student Teaching Seminar - Art 1
Prereq.: ART 400. Taken concurrently with EDSC 428 and 429. Eight-week seminar series addressing issues related to student teaching placements including classroom management, curriculum planning, organizational skills, and professional collaboration within the school and community. Open to Art Education majors only.
- ART 402 Practicum in Art Education II 1
Prereq.: ART 402 must be taken concurrently with or after completion of ART 401, EDSC 428, 429. Supervisory, mentoring, evaluatory experience in addition to exhibition installation for the CCSU Children's Art Workshop. Art Education majors only. [c]
- ART 403 Art Education and Technology 3
Prereq.: Permission of instructor. A successful portfolio review is required before enrollment. Development of basic skills in the use and application of audiovisual equipment, video, computers, and other related technologies for integration into the art classroom as teaching tools and tools used to communicate, create, and exhibit art. [c]
- ART 408 The Art of Greece in the Bronze Age 3
Prereq.: ART 110 or 112 or 113. Introduction to the art of Greece in the Bronze Age. The artistic and cultural development of mainland Greece, Crete, the Cycladic Islands, and Western Asia Minor from the Paleolithic to the end of the Bronze Age. Emphasis on the art of flourishing Minoan and Mycenaean civilizations.
- ART 409 Studies in Art History 3
Prereq.: ART 110 or 112 or 113. Selected topics in the history of art, announced each semester. Students may not take this course under the same topic more than once.
- ART 411 Roman Art 3
Prereq.: ART 110 or 112. Historical development of painting, sculpture and architecture from Romulus to Constantine. Spring.
- ART 412 Oriental Art 3
Historical development of visual arts of Far Eastern societies: architecture, painting, sculpture and minor arts of China, India, Japan, and Korea. Irregular. [I]
- ART 414 American Art 3
Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture in America from the 17th century to the present.
- ART 420 Issues in Contemporary American Art 3
Prereq.: ART 110 or 112 or 113. American art post-World War II to the present with emphasis on topics such as post modernism, public sculpture, feminist art, multiculturalism and contemporary art criticism. Includes visits to Hartford and New York galleries. (O)
- ART 424 Illustration III 3
Prereq.: ART 324. A successful portfolio review is required before enrollment. Topics in the development of individual media techniques.
- ART 430 Color Drawing 3
Prereq.: ART 230 or 252 or 431. A successful portfolio review is required before enrollment. Advanced course in drawing using a painterly approach. Strengthening of individual direction through an exploration of space, composition, color, and surface in a variety of color drawing mediums. Fall.

- ART 431 Life Drawing I 3
Prereq.: ART 130 or 435. A successful portfolio review is required before enrollment. Structural approach to drawing the nude and clothed model with focus on gesture, proportion, and the figure in the environment. Open to majors only.
- ART 432 Life Drawing II 3
Prereq.: ART 431 or permission of instructor. A successful portfolio review is required before enrollment. Continuation of ART 431. Open to majors only.
- ART 435 Advanced Drawing 3
Prereq.: Permission of instructor. A successful portfolio review is required before enrollment. Emphasis on development of expressive use of line and value. Various materials used including ink, pencil, conte crayon, chalk, wire, charcoal, and others.
- ART 441 Intaglio II 3
Prereq.: ART 341, graduate standing or permission of instructor. A successful portfolio review is required before enrollment. Continuation of Intaglio I. Spring.
- ART 443 Silkscreen II 3
Prereq.: ART 343, graduate standing or permission of instructor. A successful portfolio review is required before enrollment. Continuation of Silkscreen I. Fall.
- ART 448 Video Art II 3
Prereq.: ART 348. A successful portfolio review is required before enrollment. Digital manipulation of video as a studio medium in terms of its potential for subjective expression. Creation of video art projects and examination of the aesthetics and history of the medium. Spring. [c]
- ART 449 Media Arts II 3
Prereq.: ART 349. A successful portfolio review is required before enrollment. Multimedia fine arts topics selected by faculty and students to reflect their artistic preoccupation, or to provide research in particular skills, subjects, or trends in media arts. Examination of the aesthetics and history of multimedia. Spring. [c]
- ART 450 Advanced Watercolor Painting and Related Media 3
Prereq.: ART 250 or permission of instructor. A successful portfolio review is required before enrollment. This course will explore the various watercolor processes and the effects unique to each, i.e., tempera, aquarelle, water acrylics, and colored inks. Historical and contemporary examples of watercolor techniques will be discussed.
- ART 460 Ceramics III 3
Prereq.: ART 360. A successful portfolio review is required before enrollment. Advanced clay and glaze techniques.
- ART 464 Design-Handcraft Materials and Techniques II 3
Prereq.: ART 264 or 435. A successful portfolio review is required before enrollment. Continuation and extension of Art 264. Varied handcrafts, materials, and processes are explored as modes of artistic expression.
- ART 465 Studio Topics 1 TO 3
Prereq.: To be stipulated at time of course offering. A successful portfolio review is required before enrollment. Selected topics in studio art, announced each semester. Students may not take this course for credit under the same topic more than once.
- ART 466 Jewelry Design 3
Prereq.: ART 120 or 366 or 435. A successful portfolio review is required before enrollment. Course exploring possibilities of materials and equipment in jewelry and metal work, with emphasis on design.
- ART 468 Ceramics IV 3
Prereq.: ART 460. A successful portfolio review is required before enrollment. Thesis-clay and glaze design used to express a statement in form.
- ART 490 Curatorship 3
Theory and practice in collection management, gallery and museum programming, and exhibition design. On demand.
- ART 491 Aesthetic and Critical Dialogue About Art 3
Prereq.: ART 112, and 113; or permission of instructor. Investigation of art criticism and aesthetics through readings and critical discussions of art. Introduction to aesthetic and art criticism theories and issues will be explored.
- ART 494 Location Studies - Art 3 OR 6
Direct contact with cultural resources internationally. Consideration of principles common to all arts and those unique to art and architecture. Field trips to exhibits, private collections, artist's ateliers, operas, and museums. Preparatory reading, discussion, critical analysis and concluding projects. Summer. [I]
- ART 498 Independent Study 1 TO 3
Prereq.: Formal application to Art Department chair following procedure approved by the Art Department faculty. Individually planned program of independent study in Art or Art Education for students who wish to pursue specialized areas not covered in regular course offerings or go beyond that provided for in the program. Must be requested three weeks before new semester. May be repeated up to a maximum of 6 credits.
- ART 499 Capstone in Art 3
Prereq.: Permission of advisor. A successful portfolio review is required before enrollment. Intensive exploration of the student's individual artistic direction. Emphasis on either the development of a professional-level portfolio or research project in art. On demand.

BIOLOGY

- BIO 100 Search in Biology 3
Examination of various topics, contemporary issues, and problems in biological sciences. Three hours of lecture per week. No credit given toward biology majors or minors. Course may be repeated one time with a different topic. Irregular. Study Area IV
- BIO 101 Search in Biology with 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 107 or 111 (may be taken concurrently), or permission of department chair. Laboratory experiences in biology, with a strong emphasis on hypothesis development, experimentation, data analysis, and written reports. One two-hour laboratory per week. Study Area IV [c]
- BIO 120 Plants of Connecticut 3
From sea lettuce to mountain laurel-introduction to the plants of Connecticut. Naturalistic approach dealing with common names and practical information. Field walks and plant collections required. Two lectures and one three-hour laboratory per week. Not open to Biology majors. Summer. Study Area IV
- BIO 121 General Biology I 4
Structural and physiological organization of cells involved in growth and inheritance of living organisms is discussed. Consideration of growth of flowering plants and comparisons of levels of specialization reached among major groups within the plant kingdom. Lecture topics are paralleled in laboratory, where living, prepared and preserved materials are used for study and dissection. Three lectures and one three-hour laboratory per week. Required for major, minor, or specialization in biology, but open to anyone interested in the subject. Study Area IV [c]

- BIO 122** **General Biology II** 4
Prereq.: BIO 121. Consideration of major animal groups, emphasizing diversity of animal life and its wide distribution. Vertebrate type is used to illustrate differentiation, division of labor, and development of organ systems, stressing integration to make unified whole. Embryology, evolution, and ecology. In laboratory, living, prepared, and preserved materials are used for study and dissection. Three lectures and one three-hour laboratory per week. Study Area IV [c]
- BIO 132** **Introductory Ecology** 3
Introductory biology lecture course which examines the inter-relationships of plants, animals, and their environment. The biological aspects of man's place in the environment will be stressed. Three lectures per week. Cannot be used to meet requirements for major in Biology. Study Area IV
- BIO 133** **Laboratory in Introductory Ecology** 1
Prereq.: BIO 132. Introductory biology laboratory course in field ecology to accompany, or follow, BIO 132. One three-hour laboratory or field trip per week. Cannot be used to meet requirements for major in Biology. Study Area IV
- BIO 150** **Long Island Sound – Introductory Ecology** 4
An introduction to the physical, chemical, geological, and biological characteristics of estuaries, using Long Island Sound as a model. Laboratories and field trips will emphasize identifying common coastal organisms and understanding their roles in estuarine ecosystems. Lectures, laboratories, and field trips. Summer. Study Area IV
- BIO 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 [c]
- 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. [c]
- 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 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. [c]
- BIO 318** **Anatomy and Physiology I** 4
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]
- BIO 319** **Anatomy and Physiology II** 4
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]
- BIO 321** **Marine Invertebrate Biology** 4
Prereq.: BIO 200 or permission of the department chair. Evolutionary relationships and morphological, physiological, developmental, and ecological variation within and among taxonomic groups of marine invertebrates. Three hours of lecture and one, three-hour laboratory per week. Fall. [c]
- 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) [c]
- 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. [c]
- 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. [c]
- BIO 391** **Internship in Biology** 1 TO 3
Prereq.: Written permission of instructor and department chair. Projects in Biology under the supervision of one or more department members. Projects generally involve work with associated organizations off campus. Written report or poster presentation, and portfolio review required. On demand. [c]
- BIO 401** **Human Nutrition and Metabolism** 3
Prereq.: BIO 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. [c]
- BIO 405** **Ecology** 4
Prereq.: BIO 200 and BIO 290 (or permission of department chair) and 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. [c]
- BIO 410** **Ecological Physiology** 4
Prereq.: BIO 200 and BIO 290 and 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. (E) [c]
- BIO 412** **Human Physiology** 3
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]

- 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 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. [c]
- 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) [c]
- 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) [c]
- BIO 434 Ecology of Inland Waters 4
Prereq.: BIO 200 and BIO 290, or permission of department chair and 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) [c]
- BIO 436 Environmental Resources and Management 3
Prereq.: BIO 200 and BIO 290, or permission of department chair and CHEM 122. Analysis of the interactions of human population-resource depletion-pollution at local to global scales from an environmental management/protection perspective. Emphasis upon better understanding the impacts of over-population and methods for control, significance and loss of biodiversity, aquatic pollution, and global climate change. Spring. (E) [c]
- BIO 438 Aquatic Pollution 4
Prereq.: BIO 200 and BIO 290 (or permission of department chair) and CHEM 122. Study of the various types of aquatic pollutants, their sources and control/treatment, and the effects of water pollution upon aquatic ecosystems, as well as Federal and State water pollution regulatory programs. Laboratory will include field collection of water samples and measurement of indicators of water quality. Three hours of lecture and one three-hour laboratory per week. Some Saturday field trips required. Spring. (O) [c]
- 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) [c]
- 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. [c]
- 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. [c]
- 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) [c]
- 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. [c]
- 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. [c]
- BIO 491 Advanced Studies in Biology 1 TO 3
Prereq.: BIO 390, written permission of instructor and department chair. Advanced projects in biology under the supervision of one or more department members. It is expected that this research will be a continuation of, or closely related to research begun in BIO 390. Written report or poster presentation, and portfolio review required. May be repeated for a maximum of five credits. On demand. [c]
- BIO 499 Undergraduate Thesis in Biology 1
Prereq.: BIO 491 (may be taken concurrently), written permission of thesis advisor and department chair. Student must submit thesis proposal based on project done in BIO 491, to the Biology Department and complete the undergraduate thesis under the supervision of the thesis advisor. The same BIO 491 project may not be the subject of both a HON 491 thesis and a BIO 499 thesis. On demand. [c]

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 [c]
- 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 [c]

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 [c]

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 [c]

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. [c]

BMS 201 Principles of Cell and Molecular Biology 4
Prereq.: BMS 102 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 [c]

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. [c]

BMS 306 Genetics 4
Prereq.: BMS 201 (formerly BIO 201) or permission of the department chair, and CHEM 121. Historical development of basic principles and modern concepts of genetics. Integrated survey of each of the major fields of genetics is presented. Three lectures and one three-hour laboratory per week. [c]

BMS 311 Cell Biology 4
Prereq.: BMS 201 (formerly BIO 201) or permission of the department chair, and CHEM 121. Cellular structure and function in terms of chemical composition, physiochemical, and functional organization of cells and organelles, including basic cellular metabolism. Membrane transport phenomena, excitation, contraction, trafficking, cell interactions, and other specialized cellular functions. Three hours of lecture and one three-hour laboratory per week. No credit given to students with previous credit for BIO 411. Irregular. (c)

BMS 316 Microbiology 4
Prereq.: BMS 201 (formerly BIO 201) or permission of the department chair, and CHEM 121. Genetics and metabolism of bacteria, focusing on microorganisms that affect human health and the environment. Discussion areas include biochemistry, molecular genetics, immunology, biotechnology, infectious diseases, and environmental microbiology. Laboratory exercises deal with bacterial growth and control, diagnostic identification, bacterial genetics, and the roles of bacteria in humans and the world. Three-hours of lecture and one three-hour laboratory per week. [c]

BMS 318 Anatomy and Physiology I 4
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]

BMS 319 Anatomy and Physiology II 4
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]

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. [c]

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. [c]

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. [c]

BMS 412 Human Physiology 3
Prereq.: BIO 122 or BMS 201 (formerly BIO 201) 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. [c]

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. [c]

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 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. [c]

BMS 415 Advanced Exploration in Cell, Molecular, and Physiological Biology 3
Prereq.: BMS 201 and BMS 306 or BMS 311 or BMS 316. (BMS 201, 306, 311 and 316 formerly carried BIO designators.) The focus will be on understanding issues of cell, molecular, and physiological biology, introduced in BMS 201, at an advanced level reflective of current research in these fields. Spring. (E) [c]

BMS 490 Topics in Biomolecular Sciences 3 OR 4
Prereq.: BMS 201 (formerly BIO 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. [c]

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. [c]

BMS 495 Capstone in Molecular Biology 4
 Prereq.: BMS 306 (formerly BIO 306) or permission of the department chair. For advanced undergraduates. Introduction to the structure and function of DNA. Emphasis on approaches currently being used to analyze the expression of genes. Examination of regulated gene expression and its relationship to cellular growth and differentiation. Three hours of lecture and one three-hour laboratory per week. Irregular. [c]

BMS 496 Capstone in Biosynthesis, Bioenergetics and Metabolic Regulation 3
 Prereq.: BMS 311 (formerly BIO 311) or BMS 316 (formerly BIO 316); and CHEM 212 and 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. [c]

BMS 497 Biosynthesis, Bioenergetics and Metabolic Regulation Laboratory 1
 Prereq. or coreq.: BMS 496 (formerly BIO 496) or BMS 506 (formerly BIO 506). Laboratory to accompany BMS 496 or 506. One three-hour laboratory per week. Irregular. [c]

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. [c]

BUSINESS EDUCATION

BE 410 Office Education Methods 3
 Prereq.: Senior status, MIS 201, Keyboarding Proficiency Examination, and Word Processing Proficiency Examination or WP 204. Concepts underlying office systems technologies taught at the secondary level. Includes instructional methods and techniques, teaching and reference material, and the use of community resources. Spring. [c]

BE 450 Office Systems Application Software and Records Management 3
 Prereq.: BE 410. Survey of selected office application software and evaluation techniques. Includes a discussion of records management, forms design, formatting, and layout. Fall. [c]

CHEMISTRY

CHEM 102 Chemistry of Nutrition 3
 An introduction to nutrition, the basic nutrients, their chemistry, and their role in health. Two hours of 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 4
 Prereq.: CRM 110 and (MATH 101 or math placement exam). The concepts of chemistry as applied to law. Emphasis will be placed on the utility and validity of scientific evidence and the techniques of chemical analysis as used in criminal investigations. Three hours of lecture and one three-hour laboratory per week. Intended for students with a criminology major or minor. No credit given to students with credit for CHEM 111. Fall. Study Area IV [c]

CHEM 121 General Chemistry I 4
 Prereq.: MATH 101 or math placement test. Emphasizes relationships of basic chemical principles and theories to properties of substances, their reactivity and uses.

Contributions to the quality of life are introduced. Intended for science and engineering students. Three hours of lecture, and one three-hour laboratory per week. Study Area IV [c]

CHEM 122 General Chemistry II 4
 Prereq.: CHEM 121. Course places a greater emphasis on quantitative aspects. Three hours of lecture, and one three-hour laboratory per week. Study Area IV [c]

CHEM 210 Organic Chemistry I 3
 Prereq.: 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 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.: Permission of instructor. Research experience for first-year students to juniors under faculty supervision. May be repeated for a maximum of 6 credits. On demand.

CHEM 250 Basic Organic and Biochemistry 4
 Prereq.: CHEM 122. Principal family of organic compounds important in biological systems; fundamentals of biochemistry including acid-base properties, and metabolic pathways for energy production and biosynthesis of cellular components. Relevance is made to human health and everyday living. Three hours of lecture and one three-hour laboratory per week. Spring. (O) [c]

CHEM 301 Analytical Chemistry 4
 Prereq.: CHEM 122, and (MATH 119 or MATH 121). Theory and practice of gravimetric and volumetric quantitative analysis, introduction to colorimetric analysis, and methods of separation. Two hours of lecture and two three-hour laboratories per week. Fall. [c]

CHEM 313 Organic Preparations 1
 Coreq.: CHEM 212 and 213. Emphasis on modern procedures for preparation and isolation of organic compounds. Students are introduced to the use of chemical literature. Not open to Chemistry minors for fulfillment of program requirements except with permission of department. One three-hour laboratory per week. Spring.

CHEM 316 Spectrometric Identification of Organic Compounds 2
 Prereq.: CHEM 313. A study of physical methods of structure determination, with emphasis on infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry. Two three-hour laboratories per week. Fall. (O) [c]

CHEM 320 Biophysical Chemistry 3
 Prereq.: CHEM 212 and 213, MATH 124 or 125 or 122, PHYS 122 or 126. Principles of physical chemistry emphasizing those areas of critical importance to biological equilibria. Topics include thermodynamics, solution equilibria, molecular transport, and enzyme kinetics. Three hours of lecture per week. Spring. (E) [c]

CHEM 321 Physical Chemistry of Thermodynamics & Kinetics 4
Prereq.: CHEM 301 (may be taken concurrently), CHEM 212 and 213, PHYS 125, MATH 152 (formerly MATH 122). In-depth examination of solid, liquid, and gas behavior, including thermodynamics and kinetics as applied to chemical processes. Three hours of lecture and one three-hour laboratory per week. Fall. (O) [c]

CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics 4
Prereq.: CHEM 301, PHYS 126, MATH 221 (all may be taken concurrently), CHEM 212 and 213. Quantum mechanics as applied to atomic and molecular structure. Introduction to symmetry concepts. Theory of rotational, vibrational, electronic, and magnetic resonance spectroscopies. Statistical foundations of thermodynamics. Three hours of lecture and one three-hour laboratory per week. Fall. (E) [c]

CHEM 402 Instrumental Methods in Analytical Chemistry 4
Prereq.: CHEM 301 and CHEM 322; or admission to graduate studies. Theoretical and practical aspects of the most important instrumental techniques used in chemical analysis, including potentiometry, coulometry, voltammetry, UV/Visible absorption spectrophotometry, fluorescence spectrophotometry, atomic spectrometry, gas chromatography, and high-performance liquid chromatography. Three hours of lecture and one four-hour laboratory per week. Spring. (E) [c]

CHEM 406 Environmental Chemistry 3
Prereq.: CHEM 301 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) [c]

CHEM 432 Chemistry Seminar 1
Prereq.: CHEM 321 or 322. Students will prepare presentations on topics of current interest in various fields of chemistry and may be required to attend seminars by faculty or outside speakers. Introduction to the use of the library, literature, and searching procedures in chemical research. One conference per week. Spring. [c]

CHEM 438 Undergraduate Research 1 TO 6
Prereq.: Permission of instructor. Research participation for sophomore to senior students under faculty supervision. May be repeated for a maximum of 6 credits. On demand.

CHEM 454 Biochemistry 3
Prereq.: CHEM 212 and 213. General principles of biochemistry, chemical constituents of cells, metabolic pathways, energies, and biochemical regulators. Three hours of lecture per week. Fall.

CHEM 455 Biochemistry Laboratory 1
Coreq.: CHEM 454. Experimental work to accompany CHEM 454. One three-hour laboratory period per week. Fall. (E)

CHEM 456 Toxicology 3
Prereq.: CHEM 212 and CHEM 213 and BIO 122. Classes of toxic chemicals, their biotransformation and mechanisms of toxicity in humans. Includes natural and man-made chemicals, methods of risk assessment, environmental, and occupational regulatory standards. Spring.

CHEM 459 Bioinorganic Chemistry 3
Prereq.: CHEM 212 and 213 or admission to graduate studies. Principles of inorganic chemistry as applied to biology. Focuses on correlation of function, structure and reactivity of metals in biological systems. Three hours of lecture per week. Spring. (O) [c]

CHEM 460 Inorganic Symmetry & Spectroscopy 4
Prereq.: CHEM 322. Electronic structure and theories of bonding as they relate to the molecular structures, properties, and spectroscopy of inorganic compounds. Primary focus will be on the compounds of the d-block elements. Three hours of lecture and one three-hour laboratory per week. Spring. (E) [c]

CHEM 461 Descriptive Inorganic Chemistry 3
Prereq.: CHEM 321. A systematic study of main-group elements and the multitude of compounds they form. Acid-base, substitution, and oxidation-reduction reactions along with structural descriptions will be emphasized. Three hours of lecture per week. Spring. (O) [c]

CHEM 485 Topics in Chemistry 3
Prereq.: Permission of instructor. Advanced treatment of chemistry topics in analytical chemistry, inorganic chemistry, organic chemistry and physical chemistry. Three lectures or two lectures and one two-hour laboratory period per week depending on topic. May be repeated with different topics for a maximum of 9 credits. Irregular.

CHINESE

CHIN 111 Elementary Chinese I 3
Open only to students with one year or less of high school study. Basic sounds and structure patterns of Mandarin-Chinese are established through a direct audio-lingual approach. Fall. Skill Area III

CHIN 112 Elementary Chinese II 3
Prereq.: CHIN 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Chinese except by permission of the department chair. A continuation of CHIN 111. Spring. Skill Area III [I]

CHIN 125 Intermediate Chinese I 3
Prereq.: One year of college Chinese or equivalent. Further work on the patterns of Chinese structure with readings and conversation in the language. No credit will be given to students with previous credit for more advanced course work in Chinese except by permission of the department chair. Fall. Skill Area III [I]

CHIN 126 Intermediate Chinese II 3
Prereq.: CHIN 125. A continuation of CHIN 125. No credit will be given to students with previous credit for more advanced course work in Chinese except by permission of the department chair. Spring. Skill Area III [I]

CHIN 341 The Chinese Heritage I 3
Prereq.: CHIN 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)

CHIN 476 Classical Chinese II 3
Prereq.: CHIN 475 or equivalent. Masterpieces of classical Chinese literature, with an emphasis on the moral teachings of Confucius. (O)

COMMUNICATION

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 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.: COMM 245 (C- or higher). Development of critical thinking skills as a basis for thoughtful and effective communication. Analysis of arguments and persuasive appeals.
- COMM 302 Problem-Solving and Decision Making 3
Prereq.: COMM 245 (C- or higher). Introduction to small group interaction processes with emphasis on fundamental forms of communication in all discussion settings. May require group meetings outside of class.
- COMM 303 Controversy and Negotiation 3
Prereq.: COMM 245 (C- or higher). A systematic exploration of the nature of oral controversy and its impact on behavior. Fall.
- COMM 305 Theoretical Foundations of Journalism and Mass Communication 3
Prereq.: COMM 230 (C- or better) and COMM 240 (C- or better). Survey of the theoretical foundations of broadcast journalism and of mass communication.
- COMM 315 Political Communication 3
Examines the symbolic nature and dimensions of American politics and the American political system. Emphasis placed on the role, processes and effects of communication in political contexts. Fall.
- COMM 320 History of African-American Speakers 3
Survey of African-American speakers from the end of the 18th century to the present. Examination of the lives and texts of both the famous and lesser-known speakers and how they contributed to our nation's culture. Spring.
- COMM 330 Basic Video Production 3
Introduction to television production as it relates to verbal and visual communication. Work on individual and crew projects is a requirement.
- COMM 334 Public Relations Strategies and Techniques 3
Prereq.: COMM 234 (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 News Analysis 3
Prereq.: COMM 230 (C- or better). 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. Majors only. 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 Radio and Television Script Writing 3
Prereq.: COMM 230 and COMM 201 or COMM 202 or COMM 330 all with a grade of C- or higher. Audio and television script writing for commercial and educational uses. Terminology, formats, appeals, timing, and pacing stressed. Students will create, organize, and develop sample scripts.

COMM 353 Interviewing Theory and Practice 3
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 400 Communication Theory and Process 3
Prereq.: COMM 215 and COMM 230 and COMM 245 (all C- or higher). An introduction to prevalent theories of communication. Emphasis will be on human communication processes. Majors only.

COMM 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. Spring.

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
Prereq.: For graduate students, COMM 500 (may be taken concurrently). Knowledge, attitude, and behavior change related exclusively to environmental and natural resource conservation issues. Coercive, incentive based, and communication based change strategies will be contrasted. Non-formal education/communication, social marketing/advocacy campaigns and corporate public relations projects will be studied. Additional written work will be required for graduate students. On demand.

COMM 453 Organizational Communication 3
Prereq.: COMM 253 (C- or higher). Study of communication theory and processes within organizational contexts. Majors only. Spring.

COMM 454 Community 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. [I]

COMM 480 Television Documentary Production 3
Prereq.: COMM 428 (C- or higher). An analysis of TV documentary style, techniques and processes with opportunity to build upon TV skills learned in previous TV production courses by producing a TV documentary. Majors only.

COMM 490 Internship Study 1 TO 6
Prereq.: Permission of faculty advisor and department chair. Work in approved organization. Series of consultations and assigned readings and a final paper describing practical experiences in relation to theory are required. Majors only.

COMM 491 Independent Study 1 TO 3
Prereq.: Permission of advisor and department chair. Reading and research in approved topic under guidance of a faculty member of the Communication Department. May be repeated with different topics for a maximum of 6 credits. Majors only. On demand.

COMM 492 Legislative Intern Experience 3 OR 6
Prereq.: Junior or senior status, permission of faculty and department chair. To be taken concurrently with COMM 490. Work in the State Legislature. In addition, a series of seminars, assigned readings, and completion of a substantial research project related to work in State Legislature are required. Majors only.

COMM 495 Special Topics in Communication 3
Prereq.: Junior or senior standing or permission of instructor. Study of selected topics in Communication. May be repeated once with a different topic. Majors only.

COMPUTER ELECTRONICS TECHNOLOGY

CET 113 Introduction to Information Processing 3
Emphasis placed on the computer as a productivity tool. Student will use application software for word processing, spreadsheets, databases, and CAD. HTML programming, operating systems, and electronic mail are also presented. Laboratory assignments are related to technical applications. Spring. Skill Area IV [c]

CET 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. Fall. [c]

CET 223 Basic Electrical Circuits 3
Prereq.: MATH 115 (may be taken concurrently) or placement exam. Operation of DC circuits including voltage, current, resistance, power, electromagnetism, capacitance, inductance, and basic laws and theorems. Introduction of AC sine wave, phasor mathematics, and transformers. Laboratory experiments involve building circuits and using basic instruments to measure quantities. Fall. [c]

CET 229 Computer Hardware Architecture 3
Laboratory based course emphasizing the computer architecture and related components. Analyzing and troubleshooting the interrelationships between the operating system, computer hardware, and peripheral devices. Fall. [c]

CET 233 Advanced Electrical Circuits 3
Prereq.: CET 223, MATH 115 or placement exam and PHYS 111; or PHYS 122 or 126. Reactance and power concepts in AC. Phasor analysis of RC, RL and RCL circuits, resonance, and filters. Laboratory experiments involve building circuits, using instruments to measure quantities, and observing phenomena. Spring. [c]

- CET 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. Fall. [c]
- CET 243** **Electronic Devices** 3
Prereq.: TC 223, MATH 115 or placement exam, PHYS 111. Introduction to basic semiconductor theory including p-n junction, structure, parameters and performance characteristics of diodes, bipolar transistors, JFETs, thyristors, and optoelectronic devices. Laboratory experiments involve building circuits, using instruments to measure quantities, and observing phenomena. Spring. [c]
- CET 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. Spring. [c]
- 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. Spring. [c]
- CET 323** **Analog Circuits** 3
Prereq.: TC 243. Linear integrated circuits and their applications including operational amplifiers, comparators, oscillators, 555 timers, rectifiers, power amplifiers, power supplies, active filters, and voltage regulators. Laboratory experiments stress circuit building, troubleshooting, theoretical, and instrumental concepts. Fall. [c]
- CET 339** **Computer System Administration** 3
Laboratory course emphasizing concepts, tools, and application of technologies related to computer system administration. Includes the design, implementation, management, and maintenance of a state-of-the-art network operating system. Spring. [c]
- CET 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. Spring. [c]
- 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. Spring.
- CET 363** **Digital Circuits** 3
Prereq.: Permission of instructor. Principles and applications of digital circuits, number systems, Boolean Algebra, combinatorial and sequential logic circuits, arithmetic circuits, and MSI logic circuits. Laboratory experiments focus on circuit building and troubleshooting using TTL integrated circuits. Fall. [c]
- CET 366** **Fundamentals of Logic Design** 3
Prereq.: ET 150 and MATH 135 or MATH 152. Introduction to digital logic design. Boolean algebra, switching functions, Karnaugh maps, modular combinational circuit design, flip-flops, latches, programmable logic and synchronous sequential circuit design. Fall. [c]
- CET 402** **Topics in Computer Electronics Technology** 1 TO 3
Prereq.: Permission of department chair. An individualized inquiry of comprehensive study into a selected technical area. The students may elect to examine processes, products or developmental aspects of networking, telecommunications or electronics. May be used as an elective on a graduate student's planned program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.
- CET 405** **Applied Topics in Computer Electronics Technology** 3
Prereq.: Permission of department chair. A laboratory oriented course providing comprehensive study of a selected technological topic. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.
- CET 443** **Electronic Communication** 3
Prereq.: CET 233 or, for graduate students, permission of the department chair. Formerly TC 443. RF transmitting and receiving circuits, amplitude and frequency modulation and detection, phase modulation, antennas, RF transmission lines, and data transmissions. Focus on units of measurement. Laboratory experiments cover resonance, modulation, demodulation, and transmission channels. Spring. [c]
- CET 449** **Advanced Networking** 3
Prereq.: CET 349; for graduate students, permission of chair. Advanced router configurations, LAN switching theory and design, VLANs, WAN theory, design and technology, PPP, Frame relay, and ISDN. Laboratory activities include developing solutions for routing problems and implementing segmentation with bridges, routers, and switches. Can count as elective in CIT Technology Specialization. Fall.
- CET 453** **Microcomputers** 3
Prereq.: For graduate students, permission of department chair. Microprocessor architecture including basic memory design, address decoding and internal register structure, and assembly language programming including addressing modes and instruction set. Laboratory work consists of programming and debugging assignments. Spring. [c]
- CET 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. [c]
- CET 479** **Internet Technologies** 3
Prereq.: CET 349. For graduate students, permission of chair. Laboratory-based course emphasizing concepts, tools, applications, and development of internet-related technologies. Includes the planning, design, building, and management of an HTTP server. Can count as elective in CIT Technology Specialization. Spring. [c]
- 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. [c]

COMPUTER SCIENCE

- CS 110** **Introduction to Internet Programming and Applications** 3
Examination of physical infrastructure of local and wide area networks, internet protocol implementation, world-wide web interface programming, interactive Java applet, and Visual Basic web programming. Skill Area II [c]
- CS 113** **Introduction to Computers** 3
Introduction to computer programming together with the consideration of the impact of computers on society. Emphasis on logical problem-solving and algorithms. No credit given to students with credit for CS 151, 213 or MATH 446, 471. Skill Area II [c]
- CS 115** **Workshop in Computer Science** 3
Prereq.: MATH 099 or placement test. Topics vary and include application-oriented languages, computer literacy-oriented software packages, and human-computer interface procedures. Skill Area IV [c]
- CS 151** **Computer Science I** 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 [c]
- CS 152** **Computer Science II** 3
Prereq.: CS 151 and MATH 152 (formerly MATH 122). 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. [c]

- CS 153 Computer Science III 3
Formerly CS 161. 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. [c]
- 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 [c]
- CS 210 Computing and Culture 3
Evolution of computing from early data processing to global networking. Examination of how society has accepted and transformed role of digital technology within its cultures and institutions. Emphasis on human-computer interaction, electronic communities, and examples of their applications. Online resources will be used. Skill Area IV [c]
- CS 213 Applications of Computer Programming 3
Prereq.: MATH 119 or 121 or 125 or placement test. Focuses on the use of programming techniques to solve problems encountered in the areas of mathematics, life science, physical science, engineering, education, and social science. No credit given to students with credit for CS 151. Skill Area II [c]
- CS 253 Data and File Structures 3
Prereq.: CS 152 and MATH 218. A software design course which develops concepts and techniques for structuring and manipulating data, both in the computer and on external storage devices. Topics include a review of basic data structures, balanced tree structure, graphs, sequential and direct access files, external sorting. An introduction to data base systems is also provided. [c]
- CS 254 Computer Organization and Assembly Language Programming 3
Prereq.: CS 151 or MATH 471. Concepts of assembler language, machine language, macro-instructions, subroutines, program checkout, interrupt structure of assemblers, and use of operating system. No credit given to students with credit for MATH 472. [c]
- CS 290 Topics in Computer Science 1 TO 3
Prereq.: CS 151 or equivalent, and permission of instructor. This course will provide an opportunity to introduce into the curriculum elementary topics of current interest. May be repeated with different topics for up to 6 credits. Irregular. [c]
- CS 300 Computer Science Work Experience I 3
Prereq.: Permission of department. Students must go through Co-op office prior to receiving credit. A six-month employment experience relevant to the Computer Science program. No more than 6 credits of other course work may be taken concurrently. [c]
- CS 301 Computer Science Work Experience II 3
Prereq.: CS 300 and permission of department. Students must have a job which is different from their CS 300 job. Students must go through the Co-op office prior to receiving credit. A six-month employment experience relevant to the Computer Science program. No more than 6 credits of other course work may be taken concurrently. [c]
- CS 354 Digital Systems Design 3
Prereq.: CS 254 and MATH 218. PHYS 338 must be taken concurrently by those students whose program requires PHYS 338. An introduction to the analysis and design of digital systems in terms of logical and sequential networks. Various minimization techniques are studied. [c]
- CS 355 Introduction to Systems Programming 3
Prereq.: CS 161, 253 and 254 or MATH 472. Introduction to the design of systems software. Topics include comparative machine organizations, the design of assemblers and loaders, an introduction to operating systems and an introduction to compiler design. [c]
- CS 385 Computer Architecture 3
Prereq.: CS 354. The architecture of the computer is explored by studying its various levels: physical level, operating system level, conventional machine level and higher levels. An introduction to microprogramming and computer networking is provided. Spring. [c]
- CS 398 Independent Study in Computer Science 1 TO 3
Prereq.: CS 152 and 254. Special independent work to meet individual interest in areas not covered by regular curriculum. Work will be under the supervision of a faculty member and in an area and for an amount of credit agreed upon prior to registration for the course. On demand. [c]
- CS 407 Advanced Topics in Computer Science 1 TO 3
Prereq.: CS 152 and 254 and permission of instructor. This course provides an opportunity to introduce into the curriculum topics of interest and new courses on an experimental basis. May be repeated with different topics for up to 6 credits. [c]
- CS 410 Introduction to Software Engineering 3
Prereq.: CS 355. An examination of the software development process from the initial requirement analysis to the operation and maintenance of the final system. The scope of the course includes the organization of software development projects, the verification and validation of systems, the problems of security and privacy, and the legal aspects of software development, including software protection and software liability. Irregular. [c]
- CS 423 Computer Graphics 3
Prereq.: CS 253 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. [c]
- 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. [c]
- 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. [c]
- 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. [c]
- 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. [c]
- 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. [c]
- CS 465 Compiler Design 3
Prereq.: CS 355. Current techniques of compiler writing. Introduction to formal grammar and parsing techniques is given. Problems of semantic phase are discussed and some solutions are given. Optimization techniques are discussed. Fall. [c]
- CS 473 Simulation Techniques 3
Prereq.: CS 152 or 213, and STAT 315. Basic principles of simulation methods using digital computers. Topics covered include random number generators, stochastic variate generators, computer models, and simulation languages. Irregular. [c]

- CS 481 Operating Systems Design 3
Prereq.: CS 355. Theory and design of computer operating systems. Topics include machine and interrupt structure, memory, processor, device, and information management. Spring. [c]
- CS 483 Theory of Computation 3
Prereq.: MATH 218 and CS 463. The concept of algorithm, correctness and efficiency of algorithm, decidable vs. undecidable problems, recursion, halting problem, formal languages, context free and context-sensitive grammars, and introduction to automata and parallel algorithms. Irregular. [c]
- CS 490 Computer Communications Networks & Distributed Processing 3
Prereq.: CS 253 and 254. Study of networks of interacting computers. The problems, rationale, and possible solution for both distributed processing and distributed data bases will be examined. Irregular. [c]
- CS 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. [c]
- CS 492 Computer Security 3
Prereq.: CS 253 and CS 254 and [CS 490 or permission of instructor]. 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. [c]
- CS 495 Legal, Social, Ethical, and Economic Issues in Computing 3
Prereq.: Permission of instructor. Topics include privacy, security, law of torts in computing, and legal protection of software. Spring. [c]
- CS 498 Senior Project 1 TO 3
Prereq.: senior standing, 21 credits toward major including one advanced course. Opportunity for student to participate in design and implementation of large problem with small group of people. Problem will be chosen in consultation with instructor. [c]
- CS 499 Seminar in Computer Science 3
Opportunity for student to explore topics of current interest not covered in normal curriculum. Majors only. Irregular. [c]

CONSTRUCTION MANAGEMENT

- CM 125 Construction Graphics 3
Interpretation of civil, architectural, structural, mechanical, and electrical drawings for building and highway construction projects. Emphasis on systems analysis and code compliance. Fall.
- CM 135 Construction Quantity Take-Off 3
Prereq.: CM 125. Examination of the role of the quantity surveyor. Emphasis on analysis of architectural and structural drawings. Quantity surveys will be conducted for sitework, concrete, masonry, steel, and rough carpentry.
- CM 155 Construction Documents 3
Formerly CML 155. Examination of the role of the construction project administrator. Emphasis on interpretation of construction documents and administration of project-related documents and reports associated with the construction process.
- CM 235 Building Construction Systems 3
Introduces basic body of knowledge of construction, including job identification, terminology, and the use of equipment as used in light and heavy construction.
- CM 245 Heavy/Highway Construction Systems 3
Formerly IT 245. Introduction to heavy and highway construction practices. Emphasis on construction equipment, labor, materials, and methods as they relate to field operations.

- CM 255 Construction Business Principles 3
Prereq.: CML 155, AC 210 or AC 211. Examination of the roles of the owner of a construction company. Emphasis on ethical, organizational, financial, legal, managerial, and personnel issues. Spring.
- CM 325 Building Construction Estimating 3
Formerly CML 325. 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.
- 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 3
Formerly CML 345. Prereq.: CM 135 and CM 245. Examination of the role of the heavy and highway construction estimator. Emphasis on pricing labor, material, and equipment cost as they relate to civil construction projects. Spring. (c)
- CM 355 Construction Planning 3
Formerly CML 355. 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.
- CM 356 Materials of Construction 3
Formerly ETC 356. Prereq.: MATH 115 or 119 and CM 235 or ET 150. Investigates the strength and other properties required of various materials used in construction. The testing, proper use, and application of aggregates, concrete, structural steel, and timber will be emphasized. Fall.
- 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. 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 3
Formerly CML 455. Prereq.: CM 255 and CML 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.
- 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 multi-cultural issues.

CRIMINOLOGY AND CRIMINAL JUSTICE

- CRM 110 Introduction to the Criminal Justice System 3
Introduction to the structure and operation of the criminal justice system in the United States. Attention will be focused on the individual and institutional levels. Topics include entrance into the criminal justice system, differential treatment of offenders, and the enforcement, judicial, and penal subsystems. Study Area II
- CRM 133 Law Enforcement & Society 3
Comprehensive examination of the function of law enforcement in society. Emphasis is placed on such areas as police operations, discretion, police community relations, due process, use of deadly force, and police corruption and deviance. Study Area III
- CRM 220 Ideology & Violence 3
Examination of the causes and consequences of politically-motivated violent crime. Irregular. 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 239 Juvenile Delinquency 3
Multidisciplinary approach to understanding the extent, nature, and origins of juvenile delinquency. The evolution of the juvenile justice process, legal issues, and methods of identifying, treating, and preventing delinquency are examined.
- CRM 245 Diversity and Criminal Justice 3
Impact of race, ethnicity, and/or gender on the commission of criminal offenses, the likelihood of criminal victimization, and the treatment of criminal offenders. Also examined is the impact of race, ethnicity, and/or gender on those working in the criminal justice system. Study Area III
- CRM 300 Criminology 3
Formerly CRM 337. Prereq.: CRM 110 and CRM 133 (both 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 301 Principles and Ethics in Criminal Justice 3
Prereq.: CRM 110 and CRM 133 and 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. Students who want to become criminology majors must complete this course with a B or better. Transfer credit will not be accepted for this course. Course may be repeated once with permission of chair.
- CRM 322 Research Methods in Criminal Justice 3
Prereq.: Admission to BA in Criminology and STAT 104 or STAT 200 or STAT 215 (with a grade of C- or higher). Formerly CRM 222. An overview of the methods of inquiry used in criminal justice research, principles of research design, knowledge of research strategies, conducting literature reviews, writing and presenting research ideas, and reading empirical reports.
- CRM 325 Victimology 3
Prereq.: Admission to BA in Criminology. Current theory and research regarding the victims of crime. Topics include victim vulnerability and culpability, restitution, mediation, treatment, and compensation. Irregular.
- CRM 330 Domestic Violence 3
Prereq.: Admission to BA in Criminology. 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 340 Crime and Capitalism 3
Prereq.: Admission to BA in Criminology. Examines the extent, causes, and consequences of white collar, corporate, transnational, and government crime. Topics include U.S. government's role in drug trafficking. Irregular.
- CRM 395 Physical Evidence in Criminal Investigation 3
Prereq.: Admission to BA in Criminology. 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 401 Hate Crimes 3
Prereq.: CRM 322 (formerly CRM 222) with grade 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 402 Organized Crime 3
Prereq.: CRM 322 (formerly CRM 222) with grade of C- or higher. Provides an overview of American organized crime by examining the history and evolution of organized crime over the last century. Irregular.
- CRM 411 Community Corrections 3
Prereq.: CRM 322 (formerly CRM 222) with a grade 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 415 Training & Development 3
Prereq.: CRM 322 (formerly CRM 222) with grade of C- or higher. Analysis of theory and research pertaining to the assessment and development of job performance within criminal justice settings. Topics include job analysis, training design, and performance evaluation. Students design and implement a training project. Irregular.
- CRM 420 Current Issues in Criminal Justice Policy 3
Prereq.: CRM 322 (formerly CRM 222) with grade 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 322 (formerly CRM 222) with a grade 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 322 (formerly CRM 222) with grade 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 322 (formerly CRM 222) with grade 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 475 Controlling Anger and Aggression 3
Prereq.: CRM 322 (formerly CRM 222) with grade 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 322 (formerly CRM 222) 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
Formerly TH 235. 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
Formerly TH 236. 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
Formerly DAN 153. 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
Formerly DAN 158. 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
Formerly PE 272. 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
Formerly TH 480. 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 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.

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. [c]

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. [c]

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. [c]

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. [c]

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. [c]

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
Prerequisite: 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. [c]

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. [c]

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. [c]

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. [c]

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. [c]

DES 465 Topics in Graphic/Information Design 3
Prereq.: Permission of instructor. Selected topics in graphic/information design. May be repeated with different topics for a maximum of six credits. Open to majors only. [c]

DES 498 Independent Study in Graphic/Information Design 1 TO 3
Prereq.: Permission of instructor. Special independent work to meet individual interest in areas not covered by regular curriculum. May include interdisciplinary information design projects. May be repeated with different topics for a maximum of 6 credits. Open to majors only. On demand. [c]

DES 499 Computer Applications for Graphic/Information Design 3
Prereq.: DES 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. [c]

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 take 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
A descriptive introduction to the astronomical, geological, and meteorological studies of the earth that allow an understanding of the earth as a physical environment. No credit given students with credit in ESCI 111, or to students with 6 credits in Earth Science. Study Area IV

ESCI 111 Elementary Earth Science 3
Introduction to the study of earth science. Selected topics in geology, meteorology, and astronomy. Two lecture hours per week and one two-hour laboratory. Open only to Elementary Education students. No credit given to students with credit for ESCI 110. Study Area IV

ESCI 117 Introduction to the Solar System 3
Prereq.: MATH 099 or equivalent. An introductory course in descriptive astronomy focusing on the solar system, including coordinate systems, the Earth-Moon system, light and telescopes, and the structure of the solar system. No credit will be given to Physics or Earth Sciences majors or to students with credit for ESCI 178. Study Area IV

ESCI 118 Introduction to Stars and Galaxies 3
Prereq.: 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 218 Women's Contributions to Stellar and Galactic Astronomy 3
Prereq.: ESCI 118 or 179 or permission of instructor. Exploration of the astronomical discoveries made by women astronomers, including their methodology, consequences, and the social constraints placed upon them. Two lectures and one two-hour laboratory period per week. On demand. Study Area IV

ESCI 221 Mineralogy 4
Prereq.: CHEM 121, PHYS 122. Study of minerals, their formation, occurrence, properties, composition, and classification. Topics include crystal 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. Fall.

ESCI 222 Structural Geology 4
Prereq.: ESCI 121. Crustal structures such as folds, faults, and plutons. Three lectures and one three-hour laboratory or field trip per week. Spring. (E)

ESCI 278 Observational Astronomy 4
Prereq.: ESCI 178 or 179 or permission of instructor. Theory and practice of observational astronomy. Topics include solar and lunar observation, naked eye observation, and coordinate systems, telescope usage and design. Two lectures and two two-hour labs per week. Fall. Study Area IV

ESCI 330 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 421 The Stratigraphic Record 4
Prereq.: ESCI 122. Methods of identifying spatial and temporal sedimentary rock types. Three one-hour lectures and one three-hour laboratory period per week. Fall. (O)

- ESCI 424 Geomorphology 3
Prereq.: ESCI 121. Origin and development of land forms in terms of processes of erosion and relation to geologic structure. Three lectures per week. Fall. (O)
- ESCI 430 Oceanography 3
Prereq.: BIO 121, CHEM 121, PHYS 121. Introduction to physical properties and chemical composition of sea water, its topography and circulation, and relationships to activities of plants and animals. Three lectures per week. Field work by arrangement. Spring. (O)
- ESCI 431 Introduction to Hydrogeology 4
Prereq.: ESCI 121, MATH 152 (formerly MATH 122) or equivalent, and PHYS 121 or 125. Basic hydrogeologic principles. Overview of hydrologic and geologic relationships of ground water, contamination, and cleanup. Fluid mechanics with application to porous media. Quantitative techniques will be used. three lectures and one two-hour laboratory recitation per week. Fall.
- ESCI 442 Weather Analysis and Forecasting II 4
Prereq.: ESCI 342 and 462. National Weather Service Facsimile Products, applications of thickness and thermal wind equations, thermodynamic diagrams and their usefulness, cross-sectional analysis, tilt of pressure systems, quasi-geostrophic theory, performance characteristics of NWS prediction models. Three lecture hours and a two-hour laboratory per week. Spring. (O)
- ESCI 450 Environmental Geology 3
Prereq.: Permission of instructor. Geological factors that control or affect human habitat and land use potential. Earthquakes, landslides, floods, groundwater seepage, cave collapse, and similar processes are briefly discussed. Attention is focused on major landscape changes in urban areas during the last 25 years and on methods of preventing, avoiding, or compensating for geological hazards. Spring.
- ESCI 452 Independent Study in Earth Science 1 TO 4
Prereq.: Approved plan of study of arrangement with supervising instructor and approval of department chair. Special work in laboratory, theory, or research to meet individual requirements in areas not covered by regular curriculum. May be taken more than one semester up to 6 credits.
- ESCI 460 Seminar in Earth Science 1
Prereq.: Senior standing. Through individual readings, discussions, research, and presentations students will study contemporary topics in various fields of earth science. Capstone requirement for all earth science majors in the B.A. and B.S. non-teaching programs. Hours by arrangement. Spring.
- ESCI 461 Physical Meteorology 3
Prereq.: ESCI 129, PHYS 121 or 125 (may be taken concurrently), or permission of instructor. Examination of the physical basis of the earth's atmosphere. Structure, composition, gas laws, atmospheric thermodynamics and hydrostatics, atmospheric stability, solar radiation, and the energy budget of the earth. Three lecture hours per week. Fall. (E)
- ESCI 462 Dynamic Meteorology 3
Prereq.: ESCI 461, MATH 126 or 221 (may be taken concurrently). Continuation of ESCI 461, with emphasis on dynamic processes of the earth's atmosphere. Equations of motion, geostrophic and gradient winds, thickness and thermal wind, circulation and vorticity, mechanism and influences of pressure changes. Three lecture hours per week. Spring. (O)
- ESCI 490 Topics in Earth Science 3
Selected studies in earth science which are not offered presently in the curriculum of the department. Course may be repeated with different topics for a maximum of 6 credits.
- ECON 201 Principles of Economics II 3
Microeconomics. Presents economic principles related to consumer demand, and determination of prices of goods and factors of production under differing market structures. Applications to real world situations will be discussed. It is recommended that ECON 200 be taken before ECON 201. Study Area II
- ECON 250 Contemporary Economic Issues 3
Economic analysis of contemporary issues. Topics include federal deficits, regulation of business, income distribution, unemployment, military spending, consumer protection, technical change, and environmental degradation. Study Area II
- ECON 300 Macroeconomics 3
Prereq.: ECON 200, 201. Theoretical analysis of determination of national income and economic growth. Fall.
- ECON 305 Microeconomics 3
Prereq.: ECON 200, 201. Determination of prices of goods and productive factors in a free market economy and the role of prices in the allocation of resources. Spring.
- ECON 310 Mathematical Economics I 3
Prereq.: ECON 200, 201, MATH 125 or MATH 152 (formerly MATH 122), or permission of instructor. Applications in economics of functions, differential calculus, maxima and minima, Lagrange multipliers, matrices, and determinants. Fall.
- ECON 311 Mathematical Economics II 3
Prereq.: ECON 310. A continuation of ECON 310. Examination of economic problems in a dynamic framework. The use of integrals, differential equations, and difference equations will be discussed as applied to economics. A brief introduction to linear programming and game theory is included.
- ECON 398 Topics in Economics 1
Prereq.: Permission of instructor. Examination of selected topics in economics which are not otherwise offered as part of the department's regular courses. Course may be repeated for different topics for a total of 3 credits.
- ECON 420 Urban Economics 3
Prereq.: ECON 200, 201. Economic analysis of metropolitan and regional entities with special focus on land use, location decision-making, the provision and role of public services, transportation, public finance, human resources, and social welfare.
- 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, eco-

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

conomic 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 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. [c]

EDSC 429 Student Teaching - Secondary Art 5
Prereq.: Admission to the Professional Program of Teacher Education and permission of Director of the Office of Field Experiences. Eight-week student teaching where student demonstrates ability to conduct learning activities and to work effectively with pupils and teachers in a secondary program of art education. [c]

EDSC 435 Secondary Education Student Teaching 3 TO 9
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. Experiences in classrooms of public secondary schools where the student demonstrates the ability to conduct secondary school learning activities and to work effectively with adolescent youth.

EDUCATION — TEACHER EDUCATION

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities 4
Exploration of teaching, diversity, and the roles teachers play as leaders in diverse educational learning communities. Inquiry-based approach includes participant-observation, case analysis, examination of beliefs and research on learning and teaching. Field experience required. Taken concurrently with EDT 210. [c]

EDTE 310 Early Childhood Field Experience Practicum 1
Prereq.: Admission to the Professional Program of Teacher Education. Taken concurrently with EDEC 423. On-site experience including early childhood classroom observations and teaching experience with children and teachers in an early childhood setting. Spring.

EDTE 315 Principles of Learning: Elementary 4
Prereq.: Admission to the Professional Program. Examination of principles pertinent to teaching and learning. Emphasizes the use of educational theory and research findings applicable to classroom practices, learning communities, and learners' developmental levels. 30 hours of certification specific field experience required. In Elementary Education, taken concurrently with SPED 315 and RDG 315.

EDTE 316 Principles of Learning (Sec/K-12) 4
Prereq.: Admission to the 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 400 Philosophy of Education 3
Prereq.: Admission in the Professional Program in Teacher Education or permission of the department chair. Some major philosophies and their implications for education in the United States. Not for credit in graduate degree programs.

EDF 415 Educational Foundations 3
Prereq.: Admission to the Professional Program or permission of department chair. Social and moral contexts of schooling, purposes of education in American society, contemporary educational policy, politics of the policy-making process and the role of teachers as leaders. Not for credit in graduate degree programs.

EDUCATIONAL TECHNOLOGY

EDT 210 Introduction to Educational Technology 1
Systematic examination and application of software programs, applications and hardware (computer, network, internet) in the context of integrating technology into lesson planning. Taken concurrently with EDTE 210. [c]

EDT 315 Educational Technology in the Secondary School Classroom 1
Prereq.: Admission to the Professional Program in Teacher Education. Examination and use of software applications and hardware in the context of integrating educational technology into lesson planning in the 7-12 classroom. [c]

EDT 415 Developing Instructional Materials 1
Prereq.: EDT 210. Development of lesson plans, as part of integrated unit planning and teaching of specific content areas, to demonstrate utilization skills, design capabilities, production techniques, and evaluation strategies in education. [c]

EDT 490 Instructional Computing 3
Examination and application of computers and other related technologies to various teaching situations with emphasis on developing skills in developing and evaluating instructional software programs. [c]

ELECTRO-MECHANICAL TECHNOLOGY

EMEC 114 Introduction to Energy Processing 3
Survey of energy conversion systems, including aspects of energy transmission and control employed by industry to increase its value and usefulness. Laboratory experiments include development and use of various energy systems. Open to all students.

EMEC 303 Electro-Mechanical Converters 3
Prereq.: TC 213 or 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. Fall. [c]

EMEC 313 Electrical Power Systems 3
Commercial, industrial, and residential applications of the National Electrical Code and Contemporary Wiring practices and techniques. Spring.

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. Fall.

EMEC 324 Fluid Power Systems 3
A study of the design and fabrication, diagnosis, and repair of fluid power systems, including hydraulics, pneumatics, and fluids.

EMEC 333 Data Acquisition & 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. Spring. [c]

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. Spring. [c]

EMEC 463 Programmable Logic Controllers 3
A study of programmable sequence controllers and programmable logic controllers for motion and process control. The use of ladder logic is included. Spring.

ENGINEERING TECHNOLOGY

ET 150 Introduction to Engineering Technology 3
Introduction to engineering technology problem-solving techniques unique to areas of the technical world, including chemical, civil, construction, nuclear, manufacturing, mechanical, and electrical disciplines. Problem solving is presented in both English and International (SI) Units. Skill Area IV [c]

ET 233 Electrical Circuit Analysis 3
Prereq.: PHYS 122, MATH 152 (formerly MATH 122) or 125. Analysis of electrical circuits incorporating passive and active elements. Topics include laws and theorems applied to DC, AC, three-phase, diodes and operational amplifier circuits; transient and steady state response; phasors; frequency response, and resonance. Spring.

ET 240 Spreadsheet Tools for Engineers 3
Prereq.: MATH 115 or 119 or 121 or higher and ET 150 or permission of instructor. The application of spreadsheet tools for problem solving, graphing, and analyzing engineering data, and programming formulas, procedures and macros in Excel and Visual Basic. Customization and programming of software using Visual Basic will be covered. [c]

ET 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 Technology. Fall. Study Area IV

ET 251 Applied Mechanics I - Statics 3
Prereq.: ET 150 and PHYS 121 and MATH 136 (may be taken concurrently) or PHYS 121 and MATH 125. The fundamentals of statics, including the resolution and composition of forces, the equilibrium of force systems. The analysis of forces acting on structures and machines, centroids, moments of inertia. Vector methods are used.

ET 252 Applied Mechanics II - Dynamics 3
Prereq.: ET 251. Introduction to kinematics of motion and kinetics of particles and rigid bodies. [c]

ET 300 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. [c]

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. [c]

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 improve-

ments as related to the construction and industrial infrastructure facilities. Fall, Spring, Summer. Study Area II [c]

ET 495 Topics in Engineering Technology 3
Prereq.: ET 150 and permission of instructor. Provides an opportunity to present topics of interest not currently covered in the engineering technology curricula. [c]

ENGINEERING TECHNOLOGY—CIVIL

ETC 122 Introduction to CAD for AEC I 3
Prereq.: CET 113 (formerly TC 113) or permission of instructor. Concepts of computer-aided drafting and design applied to engineering drawings and schematics for the architectural, civil, construction, electrical, and mechanical disciplines. Laboratory course utilizing AutoCAD application software. Fall. [c]

ETC 353 Introduction to Surveying 3
Prereq.: MATH 115 or 119 or 121. Activities that will acquaint the student with instruments and tools of the surveyor including their use in the techniques of field surveying. Emphasis on actual layouts and areas and elevations as performed in the civil and construction disciplines. Spring.

ETC 397 Structural Analysis 3
Prereq.: ET 357. Analysis of statically determined structures; influence lines, deflection analysis of trusses, beams and frames; introduction to indeterminate structural analysis using consistent deformation principles and moment distribution; computer applications. [c]

ETC 405 Applied Structural Systems 3
Prereq.: ET 251, ETC 356 (formerly TC 356); or permission of instructor. Introduction to strength of materials, structural analysis and the structural design process for the construction manager or architect. Includes review of current structural steel and reinforced concrete design specifications and building code requirements. Cannot be used for credit in ET programs. Spring.

ETC 451 Soil Mechanics & 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 (formerly TC 353). Study of the planning, design, environmental concerns addressing, construction and maintenance of transportation projects using new and rehabilitated highway and bridge projects as focus points for lecture and laboratory work. Lecture/lab required. Fall.

ETC 457 Advanced Surveying 3
Prereq.: ETC 353 (formerly TC 353) and MATH 125. Advanced topics in surveying including horizontal and vertical curve layout, traversing earthwork, and laser leveling. Computer applications and effective total station usage is stressed. Lecture/lab required. [c]

ETC 458 GPS Mapping for GIS 3
Prereq.: ETC 353 (formerly TC 353) or GEOG 378 or permission of instructor. Use of the Global Positioning System (GPS) to collect information for use in a Geographic Information System (GIS). Includes integration of vector and raster data sets with GPS data. Hands-on use of equipment is emphasized. [c]

ETC 470 Structural Steel Design 3
Prereq.: ETC 356 (formerly TC 356) and ET 397. An introduction to the analysis of steel structures using classical and computer methods. Application of design, fabrication, and construction in structural steel using standard specifications. Topics on beams, columns, trusses, and frames. Fall.

ETC 471 Reinforced Concrete Structures 3
Prereq.: ET 357 and ETC 397 (formerly ET 397). Applications of design and construction in reinforced concrete and timber structures. Topics on beams, columns, slabs, footings, retaining walls, form work, and prestressed concrete fundamentals. Spring.

ETC 472 Timber Structures 3
Prereq.: ETC 397 (formerly ET 397). A study of the physical properties of wood used in structures and architecture. Influence on strength of moisture content, species, and preservation treatments are emphasized. Design and construction applications in bridges and buildings. Spring.

ETC 475 Hydrology & Storm Drainage 3
Prereq.: ETC 122 (formerly TC 122) and ET 252 and 354; or permission of instructor. Engineering topics pertaining to the hydrological cycle. Computational techniques and the use of application software for analysis of rainfall and runoff. Design skills for stormwater mitigation will be applied to course project. Lecture/lab required. Spring. [c]

ETC 476 Environmental Technology 3
Prereq.: CHEM 111 or 121, MATH 115 or 119. Environmental effects on air, water, and land from construction activities. Case studies with discussion of corrective action. Fall.

ETC 498 Engineering Technology Senior Project (Capstone) 3
Prereq.: Permission of instructor. Team work project to study, design, and/or research a project as engineering technologists. Final reports submitted to the department for archiving, and oral presentations are required. Project may originate from student, instructor, and/or industrial partner. [c]

ENGINEERING TECHNOLOGY—MECHANICAL/MANUFACTURING

ETM 256 Materials Science 3
Prereq.: MATH 115 or 119 or 121 and CHEM 111 or 121. Analysis of the structure of and engineering properties of ceramic, metallic, polymeric, elastomeric, and composite materials with relation to design and processing. Fall.

ETM 260 Computer Aided Design and Integrated Manufacturing CAD/CAM/CIM 3
Prereq.: MFG 121 or permission of instructor. Introduction to solid modeling for design, drawing, assembly, mass property analysis and manufacturing operations on a CAD/CAM/CIM system. Emphasis is on computer hardware utilization for designing products. Lecture/Laboratory. Fall, Spring, Summer.

ETM 340 Geometric Dimensioning & Tolerancing 3
Prereq.: MFG 121 or MFG 216 or permission of instructor. Interpretation, application, and verification of GDT aspects of engineering designs per the latest ANSI Y14.5. Calculations with toleranced dimensions. Concepts of datums, material condition modifiers, functional gaging, fits, true position, combined tolerances, and runout.

ETM 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. [c]

ETM 356 Materials Analysis 3
Prereq.: ET 251 or MFG 118 or permission of instructor. Study of composition, properties, and characteristics of metallic and non-metallic materials. Structure of materials, phase diagrams, and effects of environment on materials. Laboratory includes use of standard apparatus for materials testing. Fall.

ETM 358 Applied Thermodynamics 3
Prereq.: ET 251 and PHYS 122. Application of heat transfer, thermodynamics, and fluid mechanic principles to thermal system design based on engineering fundamentals of conduction, convection, and radiation heat transfer properties. Spring.

ETM 360 Computer Aided Planning (CAP) 3
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 mainte-

nance planning for JIT environment, automated production, and project planning and analysis. [c]

ETM 367 Machine Design 3
Prereq.: ET 252, 357. Study of kinematics of gear trains and three-dimensional stress analysis of power transmission elements. Topics include fasteners, bearings, springs, permanent connection, stress concentrations, notch sensitivity, and failure prevention. Fall.

ETM 422 Computer Systems and Integration 3
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. [c]

ETM 423 Applied Feedback Control Systems 3
Prereq.: ETM 323 (formerly ET 323), MATH 463. Applied study of dynamic mechatronic feedback control systems. Topics include modeling of dynamic systems, dynamic response, feedback mechanisms, digital control, and design methods. Spring.

ETM 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 (formerly ET 260) or permission of instructor. Applied parametric solid modeling for design, drawing, assembly, mass property analysis, and manufacturing tool path simulation utilizing integrated CAD/CAM software. Emphasis on the design and manufacture of products. Lecture/Laboratory. Irregular. [c]

ETM 461 Composites and Plastics Manufacturing Processes 3
Prereq.: ETM 256 (formerly ET 256) or ETM 356 (formerly ET 356), CHEM 111 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 (formerly TC 121) and MFG 216 (formerly TC 216) and ETM 340 (formerly ET 340); or permission of instructor. Design and planning of production processes and operation sequence for discrete parts. Group Technology and Cellular Manufacturing. Tolerance analysis of parts and processes. Development of process plans, routings, operation sheets, and cost estimates for manufacturing operations.

ETM 463 Plastics and Composite Tool Design 3
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. [c]

ETM 464 CAD Solid Modeling and Design 3
Prereq.: ETM 260 (formerly ET 260) and ETM 340 (formerly ET 340); or permission of instructor. Computer-aided design and analysis of solid, surface, and sheet metal models emphasizing product design. Uses computer software for design, detailing, mass property analysis, dimensional standards, and family tables. Two hours of lecture and one two-hour laboratory per week. Spring. [c]

ETM 466 Design for Manufacture 3
Prereq.: ETM 260 (formerly ET 260) and ETM 340 (formerly ET 340); or permission of instructor. Design principles and contemporary industrial practices for product realization. DFX and evaluation of designs. Integration of product functions with design and manufacturing process. Mistake proofing, design for manual, automated, and robotic assembly. Product liability issues.

ETM 467 CAE Applied Finite Element Analysis 3
Prereq.: ET 357 or permission of instructor. Application of the finite element method to structural engineering problems. Study of plane stress, plane strain, shell and continuum finite elements, mesh generation, proper element density and element interfacing, and composite modeling problems. Fall. [c]

ETM 468 Composite Design & 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. [c]

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. [c]

ENGLISH

Note: ENG 110 or an equivalent is a prerequisite for all other English courses.

Note: Sophomore standing is recommended for 200-level courses; junior standing is recommended for 300-level courses; junior or senior standing is required for 400-level courses. In addition, permission of the instructor is recommended for non-English majors.

ENG 099 Remedial English 3
Focus on improvement of basic writing skills, in order to meet entrance requirements for ENG 110. After review of grammar and punctuation, the course emphasizes sentence and paragraph formation and the development of the coherent essay. Students who are required to take ENG 099 must pass the course with a C- or better before successful completion of 24 hours of coursework. NOTE: Letter grade will affect GPA as if ENG 099 were a three credit course, but these credits will not count toward the number of credits required for graduation. Fall, Spring, Summer.

ENG 110 Freshman Composition 3
Introductory course in expository writing designed to develop the student's ability to write clearly, logically and effectively. Emphasis on the composing process, organization, coherence, sentence and paragraph structure, and usage. An acceptable Central Connecticut equivalent is required for ENG 110. See skills testing and remediation policy, page 40. Students who have not completed their ENG 110 requirement prior to achieving 61 credits are required to take both ENG 110 and 202. Skill Area I

ENG 202 Intermediate Composition 3
Prereq.: ENG 110 or permission of department chair. Intermediate course in expository writing designed to expand the student's writing skills. Emphasis on academic and career-oriented writing in the student's major field or area of interest, including research skills and papers, professional reports, and resumes. Skill Area I

ENG 203 World Literature I 3
Survey of great works of world literature from its origins to 1650, with emphasis on literatures other than British and American. Study Area I [I] [L]

ENG 204 World Literature II 3
Survey of great works of world literature from 1650 to the present, with emphasis on literatures other than British and American. Study Area I [I] [L]

ENG 205 British Literature I 3
Major British writers from the beginnings through the 18th century. Not a prerequisite for ENG 206. Study Area I [I] [L]

ENG 206 British Literature II 3
Major British writers from the late 18th century to the present. ENG 205 is not a prerequisite. Study Area I [I] [L]

ENG 210 American Literature I 3
American literature from the Colonial Period to the Civil War. Not a prerequisite for ENG 211. Study Area I [L]

ENG 211 American Literature II 3
American literature from the Civil War to the present. ENG 210 is not a prerequisite. Study Area I [L]

- ENG 212 African-American Literature 3
Survey of African-American writers from the eighteenth through twentieth centuries. Study Area I [L]
- ENG 215 Introduction to Women Writers 3
Introduction to women writers of the world, primarily in the eighteenth, nineteenth, and twentieth centuries. Study Area I [I] [L]
- ENG 220 Shakespeare 3
Selected tragedies, comedies, and history plays. Study Area I [I] [L]
- ENG 235 Journalism I 3
The fundamentals of reporting and writing news and feature stories. Covers the basics of news-gathering, newsroom practices, and ethics and responsibilities of the journalist. Skill Area I
- ENG 236 Journalism II 3
Prereq.: ENG 235 or permission of instructor. This course builds on ENG 235, emphasizing news-gathering procedures and the challenges of writing on government, the law, and other areas of journalistic specialization. Skill Area I
- ENG 250 Contemporary Literature 3
Modern fiction, plays, and poetry in relation to modern life. Study Area I [L]
- ENG 260 Introduction to Poetry 3
A close analysis of poetry: prosody, diction, figurative language, structure, tone, and theme. Selections read from entire range of English and American poetry. No credit given to students with credit for ENG 111. Study Area I [L]
- ENG 261 Introduction to Fiction 3
A close analysis of the elements, structure, and technique of short stories and novels. No credit given to students with credit for ENG 111. Study Area I [L]
- ENG 262 Introduction to Drama 3
A close analysis of plays, representing major and minor genres of drama (tragedy, comedy, tragi-comedy, melodrama, farce, etc.), relationship of genre, structure, and statement. No credit given to students with credit for ENG 111. Study Area I [I] [L]
- ENG 270 Dramatic Enactment 3
Introduction to the theory and applications of creative drama as an interpretive tool and a response to literature. (E)
- ENG 274 Storytelling 3
Study of the history, art, and technique of storytelling. Discussion of the skills involved in order to develop the student's competency in this oral tradition. Designed to enable the student to build a personal repertoire of stories for performance. (O)
- ENG 288 Studies in Literature 3
Selected topics to be announced each semester. Students may not take this course under the same topic more than once. Study Area I [L]
- ENG 332 Medieval English Literature 3
Old English and Middle English literature, exclusive of Chaucer, from the eighth through the 14th centuries. Most materials read in translation.
- ENG 333 The English Renaissance 3
Emphasis on British poetry and prose of the 16th and early 17th centuries, including such writers as More, Erasmus, Sidney, Spenser, Marlowe, Shakespeare, and Jonson.
- ENG 334 Seventeenth-Century Poetry & 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. [I]
- ENG 337 The Victorian Age 3
Poetry and non-fiction prose from 1832 to 1900, including poetry of Tennyson, Browning and Arnold and prose of Carlyle, Mill, Newman, and Ruskin. [I]
- ENG 339 Modern British Literature 3
Prose and poetry from 1900 to the present, including such writers as Hopkins, Sitwell, Eliot, Yeats, Joyce, Woolf, Forster, Auden, MacNiece, Spender, Graves, Thomas, and Orwell. [I]
- ENG 340 Early American Literature 3
Early writers of the country through approximately the first third of the 19th century, with emphasis on the ideological and social influences which shaped their art.
- ENG 341 The American Renaissance 3
Prose and poetry of American romantic authors in the 19th century. Special emphasis on Poe, Hawthorne, Melville, Thoreau, Emerson, Whitman; contemporary ideologies.
- 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 345 Modern African-American Literature 3
Study of selected writers, beginning with the Harlem Renaissance.
- ENG 360 The Bible as Literature: Old Testament 3
Major books of Old Testament important to literature, their literary qualities, and their historical and cultural backgrounds. (E)
- ENG 361 The Bible as Literature: The New Testament 3
Major books of New Testament important to literature, their literary qualities and their historical and cultural backgrounds. Part of Apocrypha. (E)
- ENG 362 Greek and Roman Literature 3
Such major Greek and Roman writers as Homer, the Greek dramatists, Plato, Thucydides, Lucretius, and Virgil.
- ENG 365 The Modern European Novel 3
Representative works by such writers as Flaubert, Tolstoy, Dostoyevsky, Proust, Kafka, and Camus. [I]
- ENG 370 Creative Writing: Creative Nonfiction 3
Prose works that combine the authority of literature and fact. Subject matter may be drawn from popular culture, science, technology, nature or personal experience. Students will research or investigate potential topics, participate in workshops, and study various authors.
- ENG 371 Creative Writing: Fiction I 3
Introduction to the art and craft of literary fiction with emphasis on developing fiction writing ability and critical reading skills. Students will actively participate in workshop sessions.
- ENG 372 Creative Writing: Fiction II 3
Prereq.: ENG 371 or permission of instructor. Presupposes proficiency in vocabulary, basic techniques, and workshop method of short fiction writing. Students are expected to have already written a considerable body of work and to be prepared to submit stories at the semester's start.
- ENG 373 Creative Writing: Poetry I 3
Introduction to the art and craft of writing poetry, emphasizing both poetry writing ability and critical reading. Students are expected to fully participate in the workshop method of critique and revision in class.

- ENG 374 Creative Writing: Poetry II 3
Prereq.: ENG 373 or permission of instructor. Presupposes proficiency in vocabulary, poetry writing techniques, workshop methods. Students must already have a considerable body of work, and generate new work. Irregular.
- ENG 375 Creative Writing: Autobiography 3
Workshop style course in writing about the transformation of one's life experience into literary art. Includes study of autobiography, discussion of readings, topic and development strategy sessions, and critiques of work-in-progress. Irregular.
- ENG 376 Creative Writing: Essay 3
Writing the familiar essay. Primarily a writing course, but also an introduction to the familiar essay as a form in the tradition of Montaigne, Hazlitt, Lamb, E.V. Lucas, E.B. White, and Thoreau.
- ENG 377 Creative Writing: Playwriting 3
Introduction to art and craft of playwriting, emphasizing writing ability and critical reading skills. Students are expected to actively participate in workshop sessions. Irregular.
- ENG 378 Creative Writing: Special Topics 3
Prereq.: One 300 level creative writing course or permission of instructor. Specific creative writing genres taught on a rotating basis. May be repeated with different topics for a maximum of 6 credits.
- ENG 380 Feature Writing 3
Prereq.: ENG 235 or 236 or permission of instructor. Writing and analysis of human interest articles; exploration of the newspaper and magazine markets. (E)
- ENG 381 Editorial Writing 3
Prereq.: ENG 235 or 236 or permission of instructor. The study, evaluation, and writing of newspaper opinion pieces. (O)
- ENG 382 Travel Writing 3
Prereq.: ENG 235 or 236 or permission of instructor. Introduction to the art and craft of travel writing beginning with an overview of the genre and exploration of contemporary works. Students will write essays and articles.
- ENG 386 The Language of Film 3
Development of visual terminology analogous to literary terminology in order to understand better the intentions of the author of the film. The qualities of picture, movement, and editing are discussed in an effort to develop critical interpretation and judgment. Attendance at film screenings required. Of ENG 386 and 486, only one may be used to satisfy major or minor requirements.
- ENG 401 Advanced Composition 3
Advanced course in expository writing designed for competent writers who wish to refine their skills. Emphasis on vividness, precision, and impact, with attention to audience and style. Not applicable to M.A. in English programs.
- ENG 402 Advanced Composition & Technology in the English Classroom 3
Prereq.: ENG 110 and acceptance in the Professional Program of Teacher Education; or permission of instructor. Advanced writing for the refinement of writing skills. Explores ways to teach writing. Addresses the use of technology in secondary English classrooms in regard to instruction, data management, and classroom management. [c]
- ENG 403 Technical Writing 3
A course designed to assist students in planning, researching, structuring, writing, revising, and editing technical materials. Emphasis on various types of writing drawn from an industrial/professional context: reports, correspondence, directories, manuals, technical articles. Not applicable to M.A. in English program.
- ENG 404 Fiction for Teachers 3
Prereq.: ENG 110; 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, enroute to understanding the pedagogy of the teaching of writing. Spring, Summer.
- ENG 405 Poetry for Teachers 3
Prereq.: ENG 110; Secondary English Education majors only. Students are treated as practicing poets who will read and discuss traditional and contemporary poetry enroute to understanding the pedagogy of teaching poetry in the secondary schools. Summer, Fall.
- ENG 406 Teaching the Mechanics of Writing 3
Prereq.: ENG 110; 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 programs.
- 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 six credits.
- ENG 450 Chaucer 3
Readings in Chaucer, with special emphasis on *The Canterbury Tales* and *Troilus and Criseyde*. Irregular.
- ENG 451 Milton 3
Readings in Milton's prose and poetry, with emphasis upon *Paradise Lost* and *Samson Agonistes*. Irregular.
- ENG 458 Studies in British Literature 3
Selected topics in British literature. Students may take this course under different topics for a maximum of 6 credits.
- ENG 461 Shakespeare: Major Comedies 3
Close analysis of major comedies and pertinent critical problems. Irregular.
- ENG 462 Shakespeare: Major Tragedies 3
Close analysis of major tragedies and pertinent critical problems. Irregular.
- ENG 463 Elizabethan & Jacobean Drama 3
Major dramatists from Kyd to Ford, excluding Shakespeare. Irregular.

- ENG 464 Restoration & 18th-Century Drama 3
English drama from 1660 to 1800, primarily comedy. Readings from the works of such dramatists as Wycherly, Etherege, Dryden, Congreve, Vanbrugh, Farquhar, Steele, Gay, Fielding, and Sheridan. Irregular.
- ENG 470 The Victorian Novel 3
Representative Victorian novelists with special emphasis on Trollope, Eliot, Dickens, Thackeray, and Hardy. Irregular. [I]
- ENG 474 Contemporary American Novel 3
American novels which have come to prominence since World War II and the changing cultural environment which they reflect. Irregular.
- ENG 475 The British Novel to 1832 3
Form and content of the novel with readings selected from Behn, DeFoe, Richardson, Fielding, Sterne, Smollett, Johnson, Burney, Walpole, Austen, and Scott. Irregular.
- ENG 476 The Modern British Novel 3
Form and content of the novel with readings selected from Joyce, Woolf, Ford, Conrad, Lawrence, Huxley, Forster, Greene, Waugh, and others. Irregular. [I]
- ENG 477 Modern British Poetry 3
Major works of Hardy, Hopkins, Yeats, D.H. Lawrence, Owen, Sassoon, Auden, Dylan Thomas, Larkin, Hughes, and others. Irregular. [I]
- ENG 478 Modern American Poetry 3
The study of important American poets from Dickinson to the present. Irregular.
- ENG 480 Modern Irish Literature 3
Study of the major themes and traditions in Irish writers of the 20th century. Included will be works by Yeats, Joyce, Synge, O'Casey, O'Connor, and others. Irregular. [I]
- ENG 484 Advanced Fiction Workshop 3
Prereq.: ENG 372 or permission of instructor. Presupposes mastery of the vocabulary and basic techniques of writing literary fiction and the workshop method. Students are expected to have a considerable body of work, and generate new work. Addresses creative process, preparation of manuscripts, publishing, and academic and career options. Irregular.
- ENG 485 Advanced Poetry Workshop 3
Prereq.: ENG 374 or permission of instructor. Presupposes mastery of the vocabulary and basic techniques of writing poetry, and the workshop method. Students are expected to have a considerable body of work, and generate new work. Addresses creative process, preparing poetry manuscripts, publishing, and academic and career options in creative writing. Irregular.
- ENG 486 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.
- 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 Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

- ENT 301 Entrepreneurship and New Venture Creation 3
Prereq.: MKT 295 or permission of the instructor. Focuses on how businesses are started. Includes recognizing opportunities and risks, gathering resources to convert opportunities into businesses. Develops the skills to evaluate and formulate a business plan. Open only to Business majors.
- ENT 305 Financing Entrepreneurial Ventures 3
Prereq.: ENT 301 and AC 212. Combines the analysis and evaluation of methods used to fund entrepreneurial ventures with the creation of a business plan for a new enterprise.
- ENT 320 Managing a Growing Business 3
Prereq.: ENT 301 and MGT 295. Focuses on management decisions in resource allocation, human resource management, marketing policies and control mechanisms that contribute to growth and value creation in business. Case studies and exercises concentrate on opportunities and problems unique to growing firms.
- ENT 499 Field Study in Entrepreneurship 3
Prereq.: ENT 301 and ENT 305 or permission of instructor. Provides students with a practical knowledge of entrepreneurial ventures and small businesses by working closely with individual entrepreneurs to develop a business plan or complete a signifi-

cant, applied business study, or by developing a business plan for a venture of the student's own choosing.

FINANCE

Note: Enrollment in 300- and 400-level Business courses requires admission to the School of Business.

FIN 295 Managerial Finance 3
Prereq.: MATH 123 or MATH 125 and AC 211 and STAT 200 all with grades of C- or higher. Basic course in business finance. Topics include the financial 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. [c]

FIN 310 Principles of Investments 3
Prereq.: FIN 295 (C- or higher). A study of investment, types of securities, sources of investment information, the securities markets, and valuation of different assets. Attention is directed to the investment of funds by individual and institutional investors. [c]

FIN 320 Financial Markets and Institutions 3
Prereq.: FIN 295 (C- or higher). The role, functions, and operations of capital markets, banks, and other financial intermediaries in modern, global economies. [c]

FIN 330 International Finance 3
Prereq.: FIN 295 (C- or higher). Formerly FIN 430. 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. [c] [I]

FIN 400 Advanced Managerial Finance 3
Prereq.: FIN 301, 310 and 320 (with grades of C- or better). An advanced course in financial management of the business firm. Utilizes a case study approach to stress the application of financial management theories. Topics include asset management, investment decisions, and financial structure of the firm. [c]

FIN 410 Securities Analysis 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. An advanced course in investments with emphasis on security analysis and portfolio management practices. Topics include financial statement analysis, use of derivatives, and special techniques employed in forecasting, timing, and the development of investment strategies. [c]

FIN 411 Financial Statement Analysis 3
Prereq.: FIN 301 and 310 and 320 (with grades of C- or higher). Examines how financial reports can be used by investors and financial analysts to make better economic decisions. Topics include: financial ratios, reported earnings, corporate performance, cash flow analysis to evaluate financial health of a company.

FIN 420 Bank Management 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. An in-depth examination of bank management issues including deposit account funding costs and stability, creditworthiness determination, loan pricing, loan portfolio management, interest rate risk management, liquidity management, foreign exchange management, and strategic planning. Spring.

FIN 421 Insurance 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. Nature and organization of insurers, analysis of insurance contracts, types of insurance products, introduction to actuarial and underwriting processes, insurer portfolio management, and insurer profitability. [c]

FIN 422 Risk Management 3
Prereq.: FIN 301 and FIN 310 and FIN 320 (all with grades of C- or higher). 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. [c]

FIN 496 Practicum in Finance 1 TO 6
Prereq.: Permission of instructor. Students work on a real world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved Project Plan. May be repeated for a maximum of 6 credits.

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 296 Internship in Community-Based Fine Arts 3
Prereq.: Permission of department chair in Art, Music or Theatre. Research and instruction in unified arts directed towards community-based arts activities and programs.

FA 412 Fine Arts Across the Curriculum 3
Prereq.: Admission to the Professional Program in Teacher Education. Introduction to concepts and skills in music, creative dramatics, dance/movement, physical education, and visual arts. Discussion of the basic strategies to integrate these disciplines into the school curriculum including the development of integrated lesson plans. Field experience required.

FA 490 Integrating the Fine Arts for the Young Learner 3
Prereq.: Permission of department chair in Art, Music, or Theatre. Study of the aesthetic experience, its importance for children, and its interrelationship with empirical knowledge. Music, the visual arts, and movement will be investigated, with an emphasis on discovering resources and developing techniques for integrating each. Summer.

FRENCH

FR 111 Elementary French I 3
Open only to students with one year or less of high school study. Foundations of the French sound system and structure are established through an aural-oral approach. Skill Area III

FR 112 Elementary French II 3
Prereq.: FR 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in French except by permission of the department chair. Continuing the presentation of the elements of French language structure. Dictation and aural comprehension are stressed as well as conversation. Skill Area III [I]

- FR 125 Intermediate French I 3
Prereq.: One year of college French or equivalent. Taught in French. French language structure is reviewed. Short stories and plays. Conversation and composition based on topics of general interest. No credit will be given to students with previous credit for more advanced course work in French except by permission of the department chair. Skill Area III [I]
- FR 126 Intermediate French II 3
Prereq.: FR 125 or equivalent. Continuation of FR 125. Taught in French. No credit will be given to students with previous credit for more advanced course work in French except by permission of the department chair. Skill Area III [I]
- FR 151 French for Reading Knowledge 3
Acquisition of basic French reading skills using scientific texts, magazines, popular literature, and other sources. On demand. Skill Area III [I]
- FR 225 Essential Skills in French I 3
Prereq.: FR 126 or French placement exam. Taught in French. Extensive use of technology and French language films, with emphasis on development of listening, speaking and writing skills. Fall. Skill Area III [I]
- FR 226 Essential Skills in French II 3
Prereq.: FR 225 or French placement exam. Taught in French. Improvement of the reading and writing of French through the use of contemporary texts, narratives, plays, and poems. 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 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 permission of instructor. Taught in English; majors/minors read and write in French. Topics include the most important features of French history, with emphasis on major artistic achievements and physical and political geography. Fall. (E) Study Area II [I]
- FR 316 Contemporary France 3
Prereq.: FR 315. Taught in French. Politics, social structures, and cultural life of France today. France in relation to Western Europe and in a broader international framework. Spring. (O) Study Area II [I]
- FR 335 French for Oral Expression 3
Prereq.: FR 226. Taught in French. Development of grammar and idiom for oral proficiency through discussion of readings, films, and other documents. Fall. (E)
- FR 336 French Composition & 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 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 [c]
- 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. [c]
- GEOG 290 Geography of Tourism** 3
Physical and cultural factors affecting the locations and relative importance of recreational areas and tourist attractions, both foreign and domestic. Spatial analysis of tourist flows, modes of transportation, effects on regional economies, and impacts on environments. Study Area II [I]
- GEOG 291 National Parks and World Heritage Sites** 3
Examination of sustainability issues for tourism development in preserved areas. Comparative analysis of national park systems globally. Case studies of individual national parks and UNESCO World Heritage sites included. Spring. Study Area II [I]
- GEOG 330 United States and Canada** 3
The environmental, cultural, and economic patterns that give character to the different parts of the United States and Canada. Analysis of the internal structure and functions of cities such as New York and Los Angeles and regional planning in problem areas such as Appalachia, Alaska, and Southern California. Fall.
- 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 120 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. [c]
- GEOG 414 Teaching Methods in Geography** 2 TO 3
Prereq.: Admission to the Professional Program. Concepts, methods, and materials for teaching geography. Middle-level certification students selecting the Complementary Subject Matter Area in geography will enroll for two credits; all others will enroll for three credits. Fall.
- GEOG 420 Internship in Planning** 3
Prereq.: Permission of the department chair. Restricted to students who are pursuing a specialization in planning. Participants will serve as interns in a municipal, regional, state, or private planning agency under the supervision of a geography faculty member. On demand.
- GEOG 430 Internship in Geography** 3
Prereq.: Permission of the department chair. Students will work in an environment directly related to the track or planned program they are following, under the supervision of a geography faculty member. Written reports are required. No credit given to students with credit for GEOG 420. On demand.
- GEOG 433 Issues in Environmental Protection** 3
Issues in the environmental protection planning process. Topics include air quality, noise, solid waste, hazardous materials, wilderness areas, endangered species, wetlands, and land use issues. A single field trip may be required.
- GEOG 434 Mexico, Central America, and the Caribbean** 3
Study of our nearest neighbors south of the border, concentrating on people, the land on which they live, and related problems, primarily from a regional point of view. Fall. [I]
- GEOG 435 Japan and Korea** 3
Study of the physical framework, resources, economic activities, and characteristic landscapes of Japan and Korea. Activities of the people of Japan and Korea in relation to their environment and resources, and the differing problems of development facing both nations. Fall. (O) [I]
- GEOG 436 South America** 3
A survey of the countries of South America with emphasis on people, places, and problems. Spring.
- GEOG 437 China** 3
Physical, economic, political, and historical geography of China. Special consideration of her population, resources, agricultural growth, and industrial expansion. Discussion of the geographic bases and the expansion of the Chinese State and the contemporary foundation of Chinese national power. Fall. (E) [I]
- GEOG 439 Urban Geography** 3
Form, function, and evolution of urban settlements with reference to attributes of place. Emphasis is also placed on internal structure and regional relationships of cities. Provides a methodological basis for thought involving the planning process, including preservation planning and systems analysis. Personal on-site study of a current urban problem within the state is expected. Spring.
- 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 marketing 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. [I]
- GEOG 459 Field Studies in Regional Geography 3 TO 6
Prereq.: Permission of instructor. On-site group studies in regional geography. This course normally involves travel outside the United States. Only 3 credits may be applied to General Education requirements. May be repeated for a maximum of twelve credits but only six of these credits may be used toward the Geography major. Winter, Summer. [I]
- GEOG 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) [c]
- 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. Spring. (O) [c]
- GEOG 471 Topics in Human Geography 3
Prereq.: GEOG 220 or permission of instructor. Selected topics in human geography. May be repeated with different topics for a maximum of 6 credits. On demand.
- GEOG 472 Topics in Physical Geography 3
Prereq.: GEOG 272 or 275 or 374 or permission of instructor. Selected topics in physical geography including urban climates, microclimatology, global change, coastal environments, and the impact of glacial and periglacial processes on landforms. May be repeated with different topics for a maximum of 6 credits. Fall.
- GEOG 473 Geography of Natural Resources 3
Prereq.: GEOG 110 or permission of instructor. Examines the definition, location, and evaluation of management. Focus on management strategies and cost benefit analyses of environmental degradation associated with resource use. Examples illustrated with GIS and remote sensing techniques. Spring. (O)
- GEOG 476 Advanced Cartography 3
Prereq.: GEOG 256 or 276 or permission of instructor. Advanced design and production of maps using cartographic/GIS and graphic software. Use of statistical packages to process data for cartographic purposes. No knowledge of computer programming required. Spring. [c]
- GEOG 478 GIS Design and Implementation 3
Prereq.: GEOG 378 or permission of instructor. Advanced study of geographic information systems and applications. Students will prepare a proposal to develop GIS for a municipality or non-profit organization. Portions of the database will be implemented. Concentration on vector software. Fall. [c]
- GEOG 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) [c]
- GEOG 483 Topics in Planning 3
Prereq.: GEOG 241 or permission of instructor. Selected topics in planning. May be repeated with different topics for a maximum of 6 credits. On demand.
- ## GERMAN
- GER 111 Elementary German I 3
Open only to students with one year or less of high school study. Functional approach to grammar. Facility in understanding spoken German and in reading is developed. Skill Area III
- GER 112 Elementary German II 3
Prereq.: GER 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in German except by permission of the department chair. Presentation of elements of German grammar is completed. Further practice in conversation; writing and speaking based on collateral reading. Skill Area III [I]
- GER 125 Intermediate German I 3
Prereq.: One year of college German or equivalent. Grammar review, conversation, and composition based on popular German readings including some one-act plays. No credit will be given to students with previous credit for more advanced course work in German except by permission of the department chair. Fall. Skill Area III [I]
- GER 126 Intermediate German II 3
Prereq.: GER 125 or equivalent. Continuation of GER 125. No credit will be given to students with previous credit for more advanced course work in German except by permission of the department chair. Spring. Skill Area III [I]
- GER 225 German Composition & Diction 3
Prereq.: GER 126 or permission of instructor. Course to train students in self-expression by means of frequent composition in German, in addition to systematic drills in pronunciation and intonation. Fall. Skill Area III [I]
- GER 226 German Structure and Idiom 3
Prereq.: GER 225 or permission of instructor. Course designed to develop idiomatic usage and fluency of expression. Spring. Skill Area III [I]
- GER 304 Literary Masterpieces to 1800 3
Prereq.: GER 225 or 226 (may be taken concurrently). Formerly GER 360. 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 226 (may be taken concurrently). Introduction to major works of German literature since 1800. Spring. Study Area I [I] [L]
- GER 315 German Civilization to 1800 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from its beginnings to 1800. Fall. Study Area II [I]
- GER 316 German Civilization from 1800 to Present 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from 1800 to the present. Spring. Study Area II [I]
- GER 335 Advanced Composition and Diction 3
Prereq.: GER 226. Additional practice in written and oral expression. Fall. [I]
- GER 336 Advanced Structure & Idiom 3
Prereq.: GER 335. 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 385 The Sound and Structure of German 3
Prereq.: Permission of instructor. Intensive and systematic study of the grammatical and phonetic structures of the German language for the advanced student. On demand. [I]

GRAPHICS TECHNOLOGY

GRT 112 Digital Imaging for Graphics Technology 3
Techniques of drawing and digital imaging for graphics technology. Emphasis on computer operations and the use of image editing software programs (Lab). Fall. 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). 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. Irregular. [c]

GRT 242 Introduction to Graphic Design & Color 3
Prereq.: GRT 112 or 212 or permission of instructor. Introduction to the use of graphics elements and color. Topics include production design for brochures, packaging, and web; includes theory and practice of process color printing. (Lab). Fall.

GRT 342 Screen Printing & Post-Press Operation 3
Fundamental operations and related information in post-press printing operation. Copy preparation, screen and stencil systems, printing techniques, ink and substrate compatibility, and finishing processes. Includes the study of layout and hand binding. (Lab). Spring.

GRT 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. Fall. [c]

GRT 402 Topics in Graphics Technology 1 TO 3
Prereq.: Permission of department chair. An individualized inquiry of comprehensive study into a selected technical area. The student may elect to examine processes, products or developmental aspects of graphics technology. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

GRT 405 Applied Topics in Graphics Technology 3
Prereq.: Permission of department chair. A laboratory oriented course providing comprehensive study of a selected technological topic. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

GRT 442 Print Production 3
Prereq.: GRT 212 (formerly TC 212). Applied study of pre-production, production, and post-production in the printing industry. [c]

GRT 462 Advanced Graphic Arts Techniques 3
Prereq.: GRT 442. Integrated experience of advanced instruction in both flexo, offset and digital printing. Experiences will include advanced color work and direct to press operations. Cultural and historical aspects of graphic arts and industrial visitations. (Lab). [c]

GRT 472 Digital & Film Photography 3
Principles of conventional and digital camera techniques. Includes camera handling, exposure, composition, developing, printing, and editing. Darkroom plans and equipment listings will be evaluated. Field trips to selected photography studios. (Lab). Open to all students. Fall.

HEALTH AND HUMAN SERVICE PROFESSIONS

HHSP 246 Health Care Ethics 3
Introduction to basic ethical theories and the analysis of the application of such theories to contemporary health care issues. Nursing support course.

HHSP 342 Ethical Issues Confronting the Geriatric Patient 3
Prereq.: PHIL 144 or HHSP 246, or permission of instructor. Examination of major ethical, social, and political issues arising in the course of caring for and treating the elderly patient as well as those arising as a result of decision not to treat these patients. On demand.

HHSP 490 Health Care Management 3
Prereq.: Permission of instructor. Overview of the concepts and practices of management needed by health care clinicians to fulfill managerial responsibilities in a variety of health care settings.

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 142 Western Civilization I 3
Ancient, medieval, and early modern contributions to the development of contemporary thought and institutions through the 17th century. Study Area II [I]

HIST 143 Western Civilization II 3
Western civilization from the 17th century to the present. Study Area II [I]

HIST 231 Ancient Civilization 3
Cultures of ancient Near East and Mediterranean. Fall. Study Area II [I]

HIST 232 Medieval Civilization 3
European history and institutions from the fall of Rome to 1300. Spring. Study Area II [I]

HIST 261 History of American Life I 3
Political, economic, social and cultural development to 1865. Study Area II

HIST 262 History of American Life II 3
Political, economic, social and cultural development since 1865. Study Area II

HIST 301 The Historical Imagination 3
Prereq.: A minimum of 6 credit hours in History. Students will practice history rather than simply study it in a passive sense. By honing research, analytical and writing skills students will be better prepared for upper level classes and work outside the university. History majors and minors only.

HIST 310 Communities in American History 3
Social history of the United States with emphasis on the specialized skills necessary for researching New England local history. Readings will survey public history opportunities in museums, archives, government agencies, historical firms, businesses and historical societies. May require off-campus research. Fall.

- HIST 320 History & the Public 3
Examination of uses of history, its social and cultural messages impact on community life, and contested nature. Will read textbooks, visit war memorials, see historical films, examine artifacts, and visit local historic house museums. Irregular.
- HIST 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 330 History of Women in the United States, 1620-1865 3
Survey of women in the United States from the colonial period through the Civil War, with special emphasis on how race, class, and ethnicity shaped women's experiences. Fall.
- HIST 331 History of Women in the United States, 1865-Present 3
Survey of women in the United States from Reconstruction to the present with special emphasis on how race, class, and ethnicity shaped women's experiences. Spring.
- HIST 335 Women, Marriage, and Family in Early Modern Europe 3
Impact of social, economic, and ideological change on gender roles and family structure in European society during the Renaissance, Reformation, and post-Reformation periods, 1400-1700. Spring. [I]
- HIST 341 English History to 1715 3
Forces contributing to the growth of English civilization and development of Great Britain. Fall. [I]
- HIST 342 English History since 1715 3
Continuation of HIST 341. Spring. [I]
- HIST 343 Modern Ireland: 1690-Present 3
Introduction to political, social, and economic history of modern Ireland, with special focus on nationalism, the impact of the Great Famine, the achievement of independence, and the ongoing conflict in the north. Spring. [I]
- HIST 344 History of Modern Germany 3
German history from 1871 to the present. Fall. (O) [I]
- HIST 347 History of Russia I 3
History of Russia from the ninth century to 1861. Fall. [I]
- HIST 348 History of Russia II 3
History of Russia from 1861 to the present. [I]
- HIST 351 East Asia to 1800 3
Political, cultural, economic, and social history of East Asian countries. Fall. Study Area II [I]
- HIST 352 East Asia since 1800 3
Continuation of HIST 351, with additional emphasis on contemporary, foreign, and colonial politics related to the Far East. Spring. Study Area II [I]
- HIST 356 History of East Central Europe since 1919 3
Social and political institutions of the Successor states in the Danubian area from 1919. Spring. (O) [I]
- HIST 361 The West in United States History 3
Westward movement and its significance in American history. Fall.
- HIST 369 African-American History 3
Survey of African-American life from the slave trade through the 1970s. Fall. (E)
- 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 377 History of Christianity I 3
Christianity from its origins to 1450 A.D. Jewish origins, literature, central doctrines, and institutional development. Consideration of its influence on secular life and institutions. Fall. (O) [I]
- HIST 378 History of Christianity II 3
Christianity from 1450 A.D. to present. Continuation of Christianity I. Spring. (O) [I]
- HIST 379 History of Poland: from the Piasts to Partition, 966-1795 3
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 381 Latin American History to 1823 3
Social, economic, political, and cultural development of Latin American countries to 1823. Fall. (O) Study Area II [I]
- HIST 382 Latin American History since 1823 3
Social, economic, political, and cultural development of Latin American countries since 1823. Spring. (O) Study Area II [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. [I]
- HIST 395 Topics in History 3
An intermediate course exploring specific areas of historical inquiry and research. Topics vary. May be repeated with different topics for a maximum of 6 credits. Irregular.
- HIST 420 Imperialism 3
Prereq.: HIST 301 or 310 or permission of instructor. Explores the nature and experience of imperialism in a variety of countries and a number of time periods. Irregular. [I]
- HIST 423 Colonial Period of American History 3
Prereq.: HIST 261 or equivalent, HIST 301 or 310, or permission of instructor. Development of America to 1763. Fall.
- HIST 424 Establishment of a New Nation 3
Prereq.: HIST 261 or equivalent, HIST 301 or 310, or permission of instructor. Establishment of the United States of America from 1763 to 1800. Spring.
- HIST 425 Era of National Development 3
Prereq.: HIST 301 or 310 or permission of instructor. Political, social, and economic development from 1800 to 1850, with special emphasis on the development of party systems. Fall.
- HIST 426 The United States, 1850-1896 3
Prereq.: HIST 301 or 310 or permission of instructor. The U.S. from the Compromise of 1850 to Plessy v. Ferguson (1896): Civil War, Reconstruction, and

the shift of public concern to problems of industrialization, urbanization, and immigration. Spring.

HIST 427 The United States, 1890-1933 3

Prereq.: HIST 301 or 310 or permission of instructor. Industrial growth, immigration, political reform, the Great Depression, and the rise of the United States as a world power. Fall.

HIST 428 The United States since 1933 3

Prereq.: HIST 301 or 310 or permission of instructor. Major political, social, economic, cultural, and diplomatic developments since 1933. Spring.

HIST 431 Ancient Northeast Africa 3

Prereq.: HIST 301 or 310 or permission of instructor. Aspects of the history and legacies of ancient northeast Africa with focus upon Nubia, Egypt, and Aksum. Irregular. [I]

HIST 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) [I]

HIST 433 History of Ancient Greece 3

Prereq.: HIST 301 or 310 or permission of instructor. Greek institutions from the Mycenaean period to the accession of Constantine. Fall. [I]

HIST 434 History of Ancient Rome 3

Prereq.: HIST 301 or 310 or permission of instructor. Roman institutions from the regal period to the reign of Constantine. Spring. [I]

HIST 435 History of Early Medieval Europe 3

Prereq.: HIST 301 or 310 or permission of instructor. The Late Roman empire to the 11th century. Spring. (E) [I]

HIST 436 History of Later Medieval Europe 3

Prereq.: HIST 301 or 310 or permission of instructor. The Crusades to the Great Schism. Spring. (O) [I]

HIST 441 Renaissance & Reformation 3

Prereq.: HIST 301 or 310 or permission of instructor. History of Europe during the Age of Transition and the Era of the Religious Wars, 1300-1648. Fall. (E) [I]

HIST 442 European History, 1650-1815 3

Prereq.: HIST 301 or 310 or permission of instructor. Social, economic, political, and cultural forces of the period in relation to formation of modern society and government. Spring. (E) [I]

HIST 443 European History, 1815-1918 3

Prereq.: HIST 301 or 310 or permission of instructor. Political, economic, and social institutions in relation to rise of liberalism, nationalism, socialism, and imperialism. Fall. [I]

HIST 444 European History, 1918 to Present 3

Prereq.: HIST 301 or 310 or permission of instructor. National and international problems of European states. Spring. [I]

HIST 445 European Intellectual History, 1750-1870 3

Prereq.: HIST 301 or 310 or permission of instructor. Main currents of European thought and culture from 1750 to 1870. Fall. (E) [I]

HIST 446 European Intellectual History, 1870-Present 3

Prereq.: HIST 301 or 310 or permission of instructor. Main currents of European thought and culture from 1870 to the present. Spring. (E) [I]

HIST 447 History of the Soviet Union 3

Prereq.: HIST 301 or 310 or permission of instructor. Study of the rise and fall of Soviet Communism, 1917-1991. Irregular. [I]

HIST 448 Stalin and Stalinism 3

Prereq.: HIST 301 or 310 or permission of instructor. Historical study of Stalin and Stalinism stressing multi-disciplinary perspectives, considered in the light of the collapse of the Soviet Union. Irregular. [I]

HIST 453 History of Modern China 3

Prereq.: HIST 301 or 310 or permission of instructor. China during the late Ch'ing, Republican and Communist periods. Fall. [I]

HIST 454 History of Modern Japan 3

Prereq.: HIST 301 or 310 or permission of instructor. Japan during the 19th and 20th centuries. Spring. [I]

HIST 458 United States Sectionalism: the Clash of Cultures 3

Prereq.: HIST 301 or 310 or permission of instructor. Clash of Northern and Southern culture over the issues of slavery from 1787 to 1861. Emphasis on the attempt to quell sectional disputes through political compromise, the rise of abolitionism, and the creation of a Slave Power. Spring.

HIST 460 African Enslavement in the Americas 3

Prereq.: HIST 301 or 310 or permission of instructor. Comparative history of slavery in Latin America, the Caribbean, and the United States from 1492-1888. Fall. (O) [I]

HIST 463 Constitutional History of the United States to 1900 3

Prereq.: HIST 301 or 310 or permission of instructor. Study of nation's fundamental law as influenced by political, economic, and social forces. Fall. (E)

HIST 465 Economic History of the United States 3

Prereq.: HIST 301 or 310 or permission of instructor. American economy from its agricultural beginnings through stages of its commercial, industrial, and financial growth.

HIST 466 History of American Technology 3

Prereq.: HIST 301 or 310 or permission of instructor. The history and development of technology in America, emphasizing sources of technology, its impact on the workplace, on the reorganization of production and management, and on change in the larger society. Fall.

HIST 469 African Americans in the 20th-Century 3

Prereq.: HIST 301 or 310 or permission of instructor. Political, economic, social, and cultural developments in Black America since 1900. Fall. (O)

HIST 472 Modern Middle East 3

Prereq.: HIST 301 or 310 or permission of instructor. Historical developments in the 20th century with a special emphasis on political, social, and economic conflicts. Fall. [I]

HIST 473 History of Judaism 3

Prereq.: HIST 301 or 310 or permission of instructor. Analysis of major themes in the historical development of Judaism from ancient times to the present. Spring. [I]

HIST 474 History of the Arab-Israeli Conflict 3

Prereq.: HIST 301 or 310 or permission of instructor. History of the Arab-Israeli conflict from the time of Israel's creation as a modern nation-state until the present. Spring. [I]

HIST 476 African History through Film 3

Prereq.: HIST 301 or 310 or permission of instructor. Africa's past and present are viewed through a series of movies and intensive scholarly discussion of selected topics and themes. Readings are derived from current scholarly research on the various issues discussed. Irregular. [I]

HIST 481 The Jews of Poland 3

Prereq.: HIST 301 or 310 or permission of instructor. Topics include immigration and settlement, community development and rights and privileges before 1795, modernization, nationalism, anti-Semitism, independence, Polish-Jewish relations during the holocaust, exodus and marginalization in communist Poland, and the new Polish Jews. Fall. (E) [I]

HIST 482 The Polish-American Immigrant and Ethnic Community 3
Prereq.: HIST 301 or 310 or permission of instructor. Topics include immigration and settlement in the United States, organizational infrastructure, heroes and myths, homeland politics and national consciousness, labor, class, ethnicity, cultural assimilation and political integration, and stereotypes and ethnic identity. Spring. (O) [I]

HIST 489 American Labor History 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical examination of the response of American Labor to technological change and the development of a formal, institutionalized labor movement. Spring. (E)

HIST 490 Senior Seminar 3
Prereq.: 24 credits in History, including HIST 301 or 310, and 6 credits at the 400-level. Senior seminar. Undergraduate history majors only.

HIST 493 Directed Readings in History 3
Prereq.: HIST 301 or 310 and 6 credits in 400-level history courses; or permission of Department Chair. Individual program of studies for students with special interests and abilities. Topics to vary from semester to semester. Not more than 3 credits to be taken in one semester. May be repeated once. On demand.

HIST 497 Topics in History 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical focus on a facet of history in order to help clarify current domestic and/or world developments. May be repeated with different topics for up to 6 credits.

HIST 498 Historical Field Studies Abroad 3
Prereq.: Permission of instructor. Classroom and study abroad exploring special historical topics taken from any world region. Normally involves travel outside the United States. Part of course taught abroad; can be taken two times with different topics. Irregular. [I]

HONORS

HON 110 Western Culture I 4
Prereq.: Honors Program participant. Introduction to western culture including its foundation in the ancient world. Spring. Study Area I

HON 120 Science & 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 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 290 Statistical Process Control and Metrology 3
Introduction to metrology and gauge R and R. Study of statistical process control, capability, sampling plans and their application to inspection, quality control, and improvement. Spring.

IT 310 Industrial Safety 3
Formerly IT 410. 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 380 Emergency Medical Technician (EMT) 6
Recognition of illnesses and injuries; training in the administering of appropriate emergency medical care. Classes will include demonstrations, practice sessions, and 10 hours of in-hospital practicum. Note: Credit automatically will be given upon proof of current emt certification as issued by the Office of Emergency Medical Service, State of Connecticut.

IT 400 Senior Project 3
The selection of a problem in one area or facet of technology and the preparation of a term report. Areas will include planning, supervision, construction techniques, design innovations, and labor relations. On demand.

IT 401 Industrial Internship 3 TO 6
Prereq.: Permission of department chair. Provides students with a supervised opportunity to work in an industrial environment directly related to their program. Written technical reports are required. Applications obtained from the department chair. Graded on a pass-fail basis.

IT 402 Topics in Technology 1 TO 3
Prereq.: Permission of the department chair. An individualized inquiry of comprehensive study into a selected technical area. The student may elect to examine processes, products, or developmental aspects of modern industry. Open only to Industrial Technology majors. Course may be repeated for a maximum of 6 credits for different topics.

IT 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 HAZWHOPPER & 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
Prereq.: Senior standing or permission of instructor. The course provides an overview of the industrial robot to introduce the student to the science of flexible automata. The course emphasizes features, capabilities, programming, selection, and implementation of industrial robots. [c]

IT 490 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.

INTEGRATED SCIENCE AND MATHEMATICS

ISM 211 Biological & Physical Sciences Integrated with Mathematics 3
Prereq.: MATH 113, taken concurrently with ISM 213. Inquiry approach to learning, focusing on connections between biological sciences, physical sciences, and mathematics. Development of skills in data interpretation and experimental design applicable to teaching in grades pre-K-8. Two hours of lecture and two hours of laboratory per week. Study Area IV [c]

ISM 213 Math Integrated with Biological and Physical Sciences 3
Prereq.: MATH 113, taken concurrently with ISM 211. Inquiry approach to learning, focusing on mathematics and its application to biological and physical sciences. Development of skills in data interpretation and experimental design applicable to teaching in grades pre-K-8. Two hours of lecture and two hours of laboratory per week. Skill Area II [c]

INTENSIVE ENGLISH LANGUAGE PROGRAM

IELP 101 Intensive English Language & American Culture I: Listening and Speaking 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level I English language listening and speaking. Student activities and several field trips are also included.

IELP 102 Intensive English Language & American Culture I: Reading and Writing 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level I English language reading and writing. Student activities and several field trips are also included.

IELP 199 Transitions 3
Prereq.: Acceptable IELP placement test results, minimum score of 475 on institutional TOEFL exam; or permission of instructor. Ten hour per week integrated language skills course for advanced ESL students. Emphasis on expository and argument writing, academic reading skills, focused discussion, formal debate, and familiarization with methods of research documentation.

IELP 200 English Language Enrichment 1
This course will help enable students who are non-native speakers of English to further develop facility in using English for academic study. May be repeated for credit. On demand.

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

INTERNATIONAL BUSINESS

Note: Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Department Chair.

IB 491 Special Topics in International Business 3
Prereq.: Senior standing or permission of instructor. Study of selected topics in international business presented by international scholars and executives. Topics will be announced in advance and will vary from semester to semester. May be repeated for a maximum of three credits. Irregular. [I]

IB 495 Field Studies in International Business 3
Prereq.: Permission of the instructor. Designed to enrich the student's understanding of the world as a marketplace by visiting foreign countries. Students will be able to observe and discuss international business problems with leading business people. On-site seminars will be included. [I]

IB 498 Seminar in International Business 3
Prereq.: Senior standing. Advanced study of current trends in the global business environment. Emphasis will be on American competitive advantage in a global business context and a critical analysis of contemporary international business research. Course content will vary from semester to semester. Spring. [I]

INTERNATIONAL STUDIES

IS 225 The World as a Total System 3
Examination of global interdependence in its historic, ecological, economic, cultural, and political dimensions. Analysis of selected contemporary global issues. Consideration of impact of global interdependence on our own local communities. Spring. Study Area II [I]

IS 226 Intercultural Sensitivity 3
Exploration of customs of the world's major societies, with an emphasis on those customs pertinent to cross-cultural understanding and the conduct of international relationships. Fall. Study Area III [I]

IS 230 Topics in International Studies 3
Interdisciplinary examination of selected topics in international studies not otherwise offered by departments or International Studies. May be repeated with different topics for up to 6 credits. Irregular.

IS 240 Caribbean Cultural Patterns 3
Prereq.: Permission of instructor or program coordinator when course is offered in Spanish. Multi-disciplinary study of the people who inhabit the islands and margins of the Caribbean Sea, with a focus upon their problems and accomplishments. This course may be taught in Spanish. Irregular. Study Area II [I]

IS 245 Puerto Rico 3
Prereq.: Permission of instructor or program coordinator when course is offered in Spanish. Multi-disciplinary study of the island of Puerto Rico and its people. Topics to be studied may include cultural development, international relations, problems, and prospects. This course may be taught in Spanish. Irregular. Study Area II [I]

IS 450 Internship in International Studies 3
Students will work under faculty supervision in an international environment related to their academic track or planned program. Written reports are required. On demand.

IS 475 International Studies Senior Project 3
Prereq.: Senior standing and declared IS major. Independent project developed by the student in consultation with International Studies advisor. The semester's work will integrate the geographic area and academic focus of the student's previous course work. On demand.

IS 490 Field Studies Abroad 3 OR 6
Course taught abroad. May be repeated for a maximum of 6 credits. [I]

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

INTERNET AND MULTIMEDIA STUDIES

IMS 110 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 [c]

IMS 480 Senior Project 3
Prereq.: IMS 110, 210, and permission of instructor. Work with a faculty member from any department interested in either developing courseware, a multimedia project, a Web site application, or similar project. On demand. [c]

IMS 490 Independent Study 3
Prereq.: Permission of instructor. Development of an extended multimedia or Internet application, or a research project on some of the social science, humanities, or value implications of cyberspace, under the guidance of a faculty advisor. On demand. [c]

ITALIAN

ITAL 111 Elementary Italian I 3
Open only to students with one year or less of high school study. No credit for students who have received credits for ITAL 118. Fundamentals of Italian pronunciation and grammar taught from the beginning by the direct method. Students participate in conversation. Skill Area III

ITAL 112 Elementary Italian II 3
Prereq.: ITAL 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Italian or who have received credit for ITAL 118. Study of spoken and written Italian is continued. Further practice in conversation, pronunciation and analysis of Italian language structure. Skill Area III [I]

ITAL 118 Intensive Elementary Italian 6
Formerly ITAL 120. Open only to students with one year or less of Italian at the high school level. Only three credits may be applied toward the International requirement. No credit for students who have received credit for ITAL 111 and/or ITAL 112. Intensive Italian language course designed to bring students to intermediate skills in one semester. Six classroom hours per week. Skill Area III [I]

ITAL 125 Intermediate Italian I 3
Prereq.: One year of college Italian or equivalent. Principles of Italian language structure are reviewed. Short stories and plays are read and discussed. Conversation and composition on topics of general interest are practiced to improve oral and written expression. No credit will be given to students with previous credit for more advanced course work in Italian except by permission of the department chair. Fall. Skill Area III [I]

ITAL 126 Intermediate Italian II 3
Prereq.: ITAL 125 or equivalent. Continuation of ITAL 125. No credit will be given to students with previous credit for more advanced course work in Italian except by permission of the department chair. Spring. Skill Area III [I]

ITAL 190 Italian for Italian Speakers 3
Prereq.: Permission of instructor. Development of diction, reading, writing skills and grammar of standard Italian compared to dialect variations. Irregular. Skill Area III [I]

ITAL 225 Italian Composition and Diction 3
Prereq.: ITAL 126 or permission of instructor. Course to train students in self-expression by means of frequent compositions in Italian, in addition to systematic drills in pronunciation and intonation. Fall. Skill Area III [I]

ITAL 226 Italian Structure and Idiom 3
Prereq.: ITAL 225 or equivalent preparation. Course designed to develop correct idiomatic usage and fluency of expression. Spring. Skill Area III [I]

ITAL 260 Introduction to Business Italian 3
Prereq.: ITAL 126 or Italian placement exam. Development of oral and written skills needed for bilingual work situations encountered in business, travel and government agencies. Includes a study of the cultural attitudes of Italian business people. Irregular. Skill Area III [I]

ITAL 304 Literary Masterpieces to 1700 3
Prereq.: ITAL 226 (may be taken concurrently) or permission of instructor. Taught in Italian. Introduction to major works in Italian literature from the Middle Ages to 1700. Fall. (O) Study Area I [I] [L]

ITAL 305 Literary Masterpieces Since 1700 3
Prereq.: ITAL 226 (may be taken concurrently) or permission of instructor. Taught in Italian. Introduction to major works in Italian literature since 1700. Spring. Study Area I [I] [L]

ITAL 315 Italian Civilization to 1861 3
Prereq.: ITAL 226 (may be taken concurrently). The cultural development of Italy from its beginnings to unification. Fall. Study Area II [I]

ITAL 316 Italian Civilization from 1861 to the Present 3
Prereq.: ITAL 226 (may be taken concurrently). Cultural development of Italy from 1861 to the present. Spring. Study Area II [I]

ITAL 335 Advanced Composition and Diction 3
Prereq.: ITAL 226. Additional practice in written and oral expression. On demand. [I]

ITAL 336 Advanced Structure and Idiom 3
Prereq.: ITAL 335. Additional practice in idiomatic usage and verbal fluency. On demand. [I]

ITAL 441 Advanced Oral Practice 3
Prereq.: Permission of instructor. Taught in Italian. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. On demand. [I]

ITAL 460 Advanced Written Italian 3
Prereq.: ITAL 335 or equivalent. Written expression of Italian, particularly in idiomatic free composition, to establish an appreciation for Italian style and develop the ability to express shades of meaning. On demand. [I]

ITAL 470 14th-Century Italian Literature 3
Prereq.: ITAL 304 or permission of instructor. Taught in Italian. Study of the period with special emphasis on Dante, Petrarch, Boccaccio. On demand. [I]

ITAL 476 16th-Century Italian Literature 3
Prereq.: ITAL 304 or permission of instructor. Taught in Italian. Major works of Italian renaissance. On demand. [I]

ITAL 488 Italian Life and Culture 3
Prereq.: Permission of instructor. Discussion of contemporary Italian society, traditions and values. On demand. [I]

JAPANESE

- JAPN 111 Elementary Japanese I 3
Open only to students with one year or less of high school study. Basic sounds and structure patterns of Japanese are established through a direct audiolingual approach. Skill Area III
- JAPN 112 Elementary Japanese II 3
Prereq.: JAPN 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Japanese except by permission of the department chair. A continuation of JAPN 111. Spring. Skill Area III [I]
- JAPN 125 Intermediate Japanese I 3
Prereq.: One year of college Japanese or equivalent. Continuation and review of grammar and structure. Development of reading skills. Fall. Skill Area III [I]
- JAPN 126 Intermediate Japanese II 3
Prereq.: JAPN 125 or equivalent. Further study of grammar and structure. Readings in literary and cultural areas. Spring. Skill Area III [I]
- JAPN 225 Japanese Composition and Diction 3
Prereq.: JAPN 126 or permission of instructor. To train students in self-expression by means of frequent compositions, systematic drills in pronunciation and intonation, and readings in Japanese literature and culture. Fall. Skill Area III [I]
- JAPN 226 Japanese Structure and Idiom 3
Prereq.: JAPN 126 or permission of instructor. To develop correct idiomatic usage and fluency of expression. Readings in Japanese literature. Spring. Skill Area III [I]
- JAPN 335 Advanced Composition and Diction 3
Prereq.: JAPN 226 or equivalent. Further study of sentence and discourse structure in Japanese and analysis of the Japanese communicative style. Designed to expand the student's speaking and listening skills. Fall. [I]
- JAPN 336 Advanced Structure and Idiom 3
Prereq.: JAPN 335 or permission of instructor. Continuation of JAPN 335 with emphasis on development of reading comprehension skills. Spring. [I]

LATIN

- LAT 111 Elementary Latin I 3
Open only to students with one year or less of high school study. Study of the elements of Latin grammar. Fall. Skill Area III
- LAT 112 Elementary Latin II 3
Prereq.: LAT 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Latin except by permission of the department chair. Continuation of LAT 111; development of reading skills. Spring. Skill Area III

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 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 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 436 South America 3
A survey of the countries of South America with emphasis on people, places, and problems. Spring.

LAW

Note: See also the Pre-Law Program on page 107, as well as HIST 463, PHIL 349, PE 412, 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
Study of the choice and use of the correct information resources available electronically and in print. Emphasis is placed on understanding subject databases that facilitate undergraduate research. Other topics include searching the World Wide Web and evaluating its content. Skill Area IV

LINGUISTICS

- LING 200 Introduction to Linguistics 3
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

- LING 300 Language Acquisition 3
Prereq.: ENG 110, LING 200. Study of how we acquire our first language; child language, regional and social dialect, register, style, and idiolect.

- LING 312 Introduction to Syntax 3
Prereq.: LING 200 (formerly ENG 200). Introduction to basic principles of syntactic theory within contemporary grammatical frameworks and how they generate grammatical sentences. Construction of sound syntactic arguments in linguistic theory. Emphasis on English syntax. Irregular.

- LING 313 Introduction to Phonetics & Phonology 3
Prereq.: LING 200 (formerly ENG 200). Articulation, acoustics, and perception of speech sounds in human language. Patterning and representation of sounds in phonological systems. Phonological processes. Use of the computerized Speech Laboratory. Irregular.

- LING 400 Linguistic Analysis 3
Intensive analysis (syntactic, morphological, phonological) of selected data from English and other languages. Particular emphasis on developing analytical skills.

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. Irregular.

LING 433 Introduction to Computational Linguistics 3
Prereq.: LING 312 and 313 (formerly ENG 312 and ENG 313). Investigation of computational models of natural language processing for both parsing and production of lexical, phonological, and syntactic units, including text to speech. The relationship between linguistic theories and the algorithms that can implement them. Irregular.

LING 434 Speech & Natural Languages Processing 3
Prereq.: LING 312 and 313 (formerly ENG 312 and ENG 313). Exploration of techniques and methods of human-computer dialogues with primary focus on how computers recognize, parse, and produce syntactic, semantic, pragmatic, and other discourse-theoretic aspects of human languages such as English. Irregular.

LING 496 TESOL Methods 3
Principles, methods, and materials for teaching English to non-English speaking students at all levels. Acquisition and practice of basic language teaching skills. Intercultural communication in the TESOL classroom. Fall.

LING 497 Second Language Acquisition 3
Major theories of language acquisition and their potential application to language learning. The theoretical bases of second language instruction. Spring.

MANAGEMENT

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

MGT 295 Fundamentals of Management and Organizational Behavior 3
An introduction to the principles of management and their application to business. Emphasis on the development of a philosophy of management and interpersonal behavior within organizations.

MGT 305 Human Resource Management 3
Prereq.: MGT 295 (C- or higher). Study of the management of human resources. Topics include equal employment opportunity, job analysis, human resource planning, recruitment, selection, training and performance appraisal, compensation, labor/management relations, and related topics.

MGT 321 International Management 3
Prereq.: MGT 295. An introductory course in the field of international management that focuses on the diverse environmental forces and factors that affect the operations and performance of multinational corporations. A comparative approach is used to develop some comprehension of the wide range of business conditions that exist in various regions of the world. [I]

MGT 345 Organizational Theory 3
Prereq.: MGT 295. Provides a systematic understanding of complex business organizations in modern society. The unit of analysis will be the organization and its major subunits. Explores how organizations shape and influence behaviors and develops a conceptual framework for analyzing the design and operation of business corporations and other complex organizations.

MGT 348 Management Systems 3
Prereq.: MGT 295. Provides an understanding of the complex sociotechnical systems in organizations. Examines the relationship between technology and social systems by applying general systems theory. Emphasizes the relationship of machines, work processes, and methods to organization structure and human relationships. Alternative strategies for managing change and innovation will be explored.

MGT 403 Ethical and Social Issues for the Manager 3
Prereq.: MGT 295 or permission of instructor or MBA director. 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 (C- or higher). Study of issues related to labor-management relations. Topics include collective bargaining, labor-management contracts, contract negotiation and administration, grievance handling, employee discipline, and related topics. Methods for measuring staffing-related criteria are included. Spring.

MGT 426 Business Organizational Behavior 3
Prereq.: MGT 295. A study of human behavior in organizations. Covers topics such as communication, decision making, team development, leadership, motivation, and productivity. Attention is given to behavioral science methods, research, and findings as applied to organizational management.

MGT 431 Compensation and Benefits 3
Prereq.: MGT 305, STAT 201 with grades of C- or higher. Study of compensation theory and practice. Topics include types of compensation and benefits, job analysis, job evaluation, pay structures, wage surveys, pay-for-performance, and methods for administering compensation and benefits.

MGT 448 Managing Strategy and Operations 3
Prereq.: FIN 295, MGT 295 (with grade of C- or higher), MGT 348, and MIS 201; or permission of instructor. 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 (C- or higher). Study of issues related to the staffing organizations. Topics include job analysis, human resource planning, recruitment, selection, equal employment opportunity, and related topics. Methods of measuring staffing-related criteria are included. Spring.

MGT 462 International Human Resource Management 3
Prereq.: MGT 305 (C- or higher). Study of human resource issues for multinational organizations. Topics include recruitment, selection, performance, training, career planning, compensation, labor relations, and related topics for expatriates and multicultural workforces. Fall.

MGT 470 Organizing and Managing for Quality 3
Prereq.: MGT 295. Examines leading organizational architecture that employs quality management in all activities of the enterprise. Explores how competitive strength is built by enabling the work force to innovate, so that products and service meet global customer standards.

MGT 471 Managing Knowledge for Business Performance 3
Prereq.: MGT 295; for graduate students, permission of chair (additional work required). Explores how people in organizations manage processes for creating, sharing, and evaluating knowledge used to improve and innovate business performance. Covers nature of knowledge, communities of practice, intellectual capital, knowledge life cycles, and executing knowledge projects. On demand.

MGT 473 Organizing and Managing for Innovation 3
Prereq.: MGT 345 (C- or higher); or permission of instructor; or permission of MBA director. Explores contemporary approaches for releasing employee, supplier and customer creativity to constantly innovate what and how an organization produces its products and services.

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 with grades of C- or higher; and senior standing. Examines the role of a company's executive team in defining its long-term competitive direction. Focuses on the strategic management process of formulating and implementing the organization's mission, goals, strategies, and plans.

MGT 481 Management of Not-For-Profit Organizations 3
Prereq.: MGT 295. This course will apply basic principles of management of profit-making organizations to those in not-for-profit sectors. Areas discussed will be the management problems affecting hospitals, charitable organizations, foundations, and unions.

MGT 490 Management Topics 3
Prereq.: Permission of instructor. Selected topics in management, organization theory, and human resource management. Course content will vary from semester to semester. May be repeated with different topics for a maximum of 6 credits. Irregular.

MGT 496 Practicum in Management and Organization 3
Prereq.: Permission of instructor and meet criteria dependent upon nature of the specific project(s) and permission of the chair of the Management and Organization Department. Students work on a real-world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved project plan. May be taken for a maximum of 6 credits. On demand.

MGT 497 Internship/Independent Study in Management and Organization 3
Prereq.: Approved Special Project Request Form. Applications may be obtained from the chair of the Management and Organization Department. Students, with approved proposals, identify and investigate managerial problem areas as well as organizational growth and development phenomena. Progress and performance are monitored and evaluated by the faculty advisor who has approved the study project. Activity may be either research oriented or an internship. May be repeated for a maximum of 6 credits.

MANAGEMENT INFORMATION SYSTEMS

Note: Enrollment in upper-division Business courses requires admission to the School of Business or permission of the Department Chair.

MIS 201 Introduction to Management Information Systems 3
The course provides the background necessary for understanding the role of information systems in organizations and for using computer tools and technology in solving business problems. Topics include organizational foundations of information systems, technical foundations of information systems, building information systems, and the management of information. Not open to CS majors. [c]

MIS 210 Application Program Development I 3
Prereq.: MIS 201 (C- or higher). An introduction to computer programming in a business environment. Emphasis on the fundamentals of structured program design, development, testing, implementation, and documentation of common business-oriented applications using COBOL. Discussion and application of top-down design strategies and structured programming techniques for designing and developing problem solutions. [c]

MIS 220 Contemporary Business Applications Development 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 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. [c]

MIS 312 Contemporary Business Application Development II 3
Prereq.: MIS 220. Emphasizes program design, development, testing implementation, and documentation of business applications. Window and web applications, data access, security, and exchange will be covered. [c]

MIS 315 Database Management Systems 3
Prereq.: MIS 201 and MIS 220 and MIS 305. 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. [c]

MIS 361 Systems Analysis and Design for Business 3
Prereq.: MIS 201 and MIS 220 and MIS 305. 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. [c]

MIS 400 Business Decision Analysis Using Knowledge Bases 3
Prereq.: MIS 315 and MIS 361. 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. [c]

MIS 410 Business-Driven Network Design 3
Prereq.: MIS 315 and MIS 361. 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. [c]

MIS 450 Enterprise Strategies and Transformations 3
Prereq.: MIS 315 (with grade of C- or higher) and MIS 361 (with grade of C- or higher). Organizational transformations are critical for continued market success in an increasingly complex and dynamic global environment. Emphasizes integrative strategies spanning all business functions which are needed by evolving and established enterprises.

MIS 460 Emerging Technologies for Business 3
Prereq.: Senior standing. Analysis of current topics and developments in emerging technologies. Application of these technologies to support decision-making in enterprises. Design of alternate information systems and strategies. May be repeated under a different topic to a maximum of 6 credits. Irregular. [c]

MIS 462 Systems Implementation & Project Management 3
Prereq.: MIS 315 and MIS 361. 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. [c]

MIS 494 Independent Study in Management Information Systems 3 TO 6
Prereq.: Senior standing. Special study or research projects. Progress and performance are monitored and evaluated by a qualified MIS faculty advisor. May be repeated with different topics for a maximum of 6 credits. On demand. [c]

MIS 496 Practicum in Management Information Systems 3
Prereq.: Permission of department chair. Students work on a real-world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved Special Project Request Form. May be repeated for a maximum of 6 credits. On demand.

MIS 498 Information and Decision Sciences Seminar 3
Prereq.: Senior standing. An examination of the current trends in the theory and business practices of information and decision sciences. On demand. [c]

MANAGERIAL COMMUNICATION

MC 207 Managerial Communications 3
Prereq.: ENG 110 and sophomore standing. The study and development of effective business correspondence, reports, and communications systems. Selected assignments include written and oral reports used in business.

MANUFACTURING TECHNOLOGY

MFG 118 Introduction to 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.

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. [c]

MFG 216 Manufacturing Processes 3
Prereq.: MFG 118 or ET 150, or permission of instructor. Manufacturing principles for material removal, forming, joining, and casting. Applications of machine tool setup and operation, feeds and speeds, principles of cutting tools, welding, and foundry. [c]

MFG 226 Principles of Computer Numerical Control 3
Prereq.: ETM 260 (formerly ET 260). Principles essential for computer numerical control part programming and machine tool operation. Laboratory experiences include word address programming, computer-aided programming, and CNC machine tool setup and operation. Spring.

MFG 236 Tool Design 3
Prereq.: ET 260. Introductory study of and experiences in the design and construction of custom tooling for manufacturing. 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. [c]

MFG 366 Manufacturing Supply Chain Strategy 3
Prereq.: MGT 295. Overview of emerging trends in managing the manufacturing supply and value chains. Strategies, tools and techniques for production, purchasing, inventory control, customer service and distribution. Fall.

MFG 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 Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

MKT 295 Fundamentals of Marketing 3
Overview of the multifaceted discipline and practice of marketing, emphasizing market segmentation and exchange. Consideration of consumer and industrial markets, product and service marketing, pricing and promotion strategies, and the role of distribution channels. [c]

MKT 305 Consumer Behavior 3
Prereq.: MKT 295 (C- or higher). Examines the influence of psychological, sociological and cultural factors on buying behavior of consumers and industrial buyers. Shows how this knowledge is indispensable to the marketing manager when he or she delineates target markets and makes decisions about product, price, promotion, and channels of distribution. Current theories and models are related to present practices and potential applications.

MKT 306 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.

MKT 308 Introduction to Hospitality 3
Prereq.: MKT 295 (C- or higher). Overview of the hospitality industry, with special emphasis on hotel, restaurant, tourism, recreation, and leisure. Topics include history, principles, practices, philosophies, systems, description, and interrelationships of hospitality components and the social and economic forces that impact this industry. Fall.

MKT 311 Retailing 3
Prereq.: MKT 295 (C- or higher). Discussions of retail store problems, opportunities and trends in retailing, store organizations, merchandising, and store management.

MKT 313 Merchandising 3
Prereq.: MKT 311 (C- or higher). Discusses the basic elements of buying, merchandising, stock controls, product information, and fashion analysis as they apply to the retailer and consumer.

MKT 321 International Marketing 3
Prereq.: MKT 295 (C- or higher). An analysis of the techniques, procedures, and strategies used by multinational firms. Potential problems are explored. Methods and sources of data for determining products to sell and countries in which to sell them are studied. [1]

MKT 340 Product Development & Management 3
Prereq.: MKT 295 (C- or higher). A systematic examination of the processes by which new products are developed and incorporated into the marketing mix, existing products are evaluated and managed, and uneconomic products are demarketed.

MKT 350 Marketing Channels 3
Prereq.: MKT 295 (C- or higher). A critical analysis of the various distributive strategies, the underlying theories of distribution channels, the techniques of costing alternative trade channels, and the structuring of channel intermediaries.

MKT 358 Relationship Marketing 3
Prereq.: MKT 295 (C- or higher). Strategic planning for developing and retaining repeat customers and business buyers. An examination of customer service systems and measurements such as buyer communication, customer satisfaction research, databases, pricing incentives, and product enhancements. Spring.

MKT 359 Special Events Marketing 3
Prereq.: MKT 295 (C- or higher). Prepares current and future managers to deal with business special events and meetings. Provides students with basic concepts common to all special events, as well as, ideas and techniques concerning unique situations.

MKT 375 Services Marketing 3
Prereq.: MKT 295 (C- or higher). Investigates unique problems associated with marketing of services. Focuses on managing customer perceptions of service quality by designing services to match customer driven quality standards, communication to set realistic customer expectations and delivering services to meet those expectations.

MKT 401 Marketing in Cyberspace 3
Prereq.: MIS 201 and MKT 295. Theory and practice of effective Internet research strategies. Exploration of current practices in Internet-based information system technologies. Examination of the Internet as a marketing medium for product distribution and promotion. Irregular.

MKT 413 Business Marketing 3
Prereq.: MKT 295 (C- or higher). Organization, principles, policies, procedures, and techniques used in effective and efficient buying and selling of materials, equipment and, supplies by business and industry. Emphasis on roles of purchasing agents in wholesale organizations and buyers in retail establishments.

MKT 423 Marketing Research 3
Prereq.: MKT 295 and STAT 200 with grades of C- or higher; or permission of department chair. Overview of research methods and procedures used in marketing

to help solve marketing problems. Analysis of basic research designs and methods of collecting and interpreting data. [c]

MKT 430 Sales Technique & Training 3
Prereq.: MKT 295 (C- or higher); or permission of instructor and department chair. A study of the characteristics of the good salesperson, types of salespeople, psychology of selling and sales techniques; an overview of the training of salespeople.

MKT 450 Strategic Marketing 3
Prereq.: AC 212 and FIN 295 and MGT 295 and MIS 201 and MKT 423 (all with grades of C- or higher); and senior standing. For graduate students, permission of the MBA director. Achieving and sustaining competitive advantage in a complex, dynamic environment. Case studies, simulated scenarios and/or real world projects are assigned to demonstrate how business functions are integrated in making strategic marketing decisions. [c]

MKT 470 Marketing Communications Campaigns 3
Prereq.: MKT 306 (C- or higher); or permission of graduate advisor. Applications of marketing communication theory. Students learn how an organization integrates its promotion mix elements to present a unified message, and then create a strategic promotion plan for a real client. On demand.

MKT 480 Marketing for Non-Profit Organizations 3
Prereq.: MKT 295 (C- or higher). A comprehensive study of the techniques used in marketing as they apply to non-profit organizations such as hospitals, governments, social action groups, educational institutions, religious institutions, etc. Topical areas to be covered will include market analysis, promotion decisions, market information systems, and decision making in non-profit structures.

MKT 494 Independent Study in Marketing 1 TO 6
Prereq.: MKT 295 (C- or higher); and senior standing, permission of the supervising instructor, the department chair, and the Dean of the School of Business. Special study or research projects, as assigned. Students with a deep interest in a specialized subject area explore their topic in detail.

MKT 497 Marketing Internship 3
Prereq.: MKT 295 (C- or higher); and permission of the department chair and the Dean of the School of Business. Offers opportunity for students to use marketing knowledge and skills while gaining professional experience in a Connecticut business, government agency or non-profit organization. Majors with an overall GPA of 2.50 or better only. On demand.

MATHEMATICS

MATH 099 Elementary Algebra 3
Review of fundamental algorithms of whole numbers, integers, rational numbers, and elementary algebra. Students who are required to take MATH 099 must pass this course with a C- or better before successful completion of 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. Fall, Spring, Summer.

MATH 101 Intermediate Algebra 3
Prereq.: MATH 099 (C- or higher) or placement exam. Review and extension of elementary algebra. A study of functions including their algebraic properties and graphs. Quadratic equations and inequalities are solved and graphed. Graphing calculator required. No credit given to students with credit for MATH 115, 119, 121, 123, 124, 125, 135 or 152 (formerly MATH 122). This course may not be used to meet the General Education requirement nor requirements for a major, a minor, or certification in mathematics.

MATH 105 Fundamentals of Mathematics 3
Prereq.: MATH 101 (C- or higher) or placement exam. This course is intended for those students who are not majoring in mathematics or the natural sciences. Provides students with an introduction to a broad range of topics in mathematics. No credit given to students with credit for MATH 218. May not be used to meet the requirements for a major, a minor, or certification in mathematics. Skill Area II

MATH 110 Finite Mathematics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Topics to include those chosen from logic, theory of sets, counting techniques, probability theory, linear equations, linear programming, matrix algebra, graph theory, and Markov chains. Emphasis placed on the construction of mathematical models and their applications. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Fall. Skill Area II

MATH 113 Structure of Mathematics I: Number Systems 3
Prereq.: MATH 101 (C- or higher) or placement exam. Problem solving approach to inductive reasoning, sets, numeration, number theory, integer properties and operations, rational number properties, and numeration. No credit given to those with credit for MATH 366. Intended ONLY for students seeking elementary, early childhood, or middle level certification and can be used to meet requirements of a major or minor in mathematics only for such students. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 115 Trigonometry 3
Prereq.: MATH 101 (C- or higher) or placement exam. Study of relations, functions (special emphasis on the six trigonometric functions), inverses, and graphs. An analytic approach to trigonometry using circular functions, angular measures, identities, graphs and inverses. No credit given to students with credit for MATH 119, 124, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 119 Pre-Calculus with Trigonometry 4
Prereq.: MATH 101 (C- or higher) or placement exam. Preparation course for the calculus sequence. Properties of functions including polynomial, rational, periodic, exponential and logarithmic, and rate of change. Also covers trigonometry, including the unit circle, right triangles, and analytic trigonometry. No credit given for students with credit for MATH 115, 121, 124, 135 or 152 (formerly MATH 122). Skill Area II

MATH 120 Problem Solving I 1
Prereq.: MATH 115 (C- or higher) or MATH 119 (C- or higher) or placement exam. Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, and trigonometry. One two-hour lab per week.

MATH 121 Pre-Calculus Mathematics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Properties of the real numbers, relations and functions, exponential and logarithmic functions, mathematical induction, and conics. No credit given to students with credit for MATH 119, 124, 125, 135 or 152 (formerly MATH 122). Skill Area II

MATH 123 Applied Business Mathematics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Elements of calculus and finite mathematics with emphasis on applications to problems arising in business. Topics include polynomial and rational functions, modeling, limits, continuity, derivatives, maxima and minima of functions, matrices, systems of linear equations, linear inequalities, and linear programming. Exponential and logarithmic functions will be studied if time permits. No credit given for students with credit for MATH 124, 125, 135 or 152 (formerly MATH 122). Skill Area II

MATH 124 Applied Calculus with Trigonometry 4
Prereq.: MATH 101 (C- or higher). Polynomial, rational, exponential, logarithmic and trigonometric functions. and their application to the natural sciences. The concepts of rate of change, limit, and derivative are emphasized. Integration is introduced. No credit given to students with credit for MATH 115, 119, 125, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood, or middle level, certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 125 Applied Calculus 3
Prereq.: MATH 101 (C- or higher) or placement exam. This course is for students majoring in the social, biological, behavioral, and managerial sciences. Topics include review of algebra, differentiation, and integration. Graphing calculator required. No

credit given to students with credit for MATH 124, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 135 Applied Engineering Calculus I 3
Prereq.: MATH 119 (C- or higher) or MATH 115 (C- or higher) and MATH 121 (C- or higher) or Math Placement Exam. This course is for students majoring in engineering technology. Topics include analytical geometry, limits, and differentiation. Exponential, logarithmic, and trigonometric functions are included. Applications to physics and engineering problems will be emphasized. No credit given to students with credit for MATH 124, 125, or 152 (formerly MATH 122). Skill Area II

MATH 136 Applied Engineering Calculus II 3
Prereq.: MATH 135 (C- or higher) or permission of instructor. Continuation of MATH 135. Topics include the integral, techniques of integration, application of integrals, and multivariate calculus. No credit given to students with credit for MATH 221. Engineering Technology students with credit for MATH 125 prior to Spring 2003 will be admitted. Skill Area II

MATH 152 Calculus I 4
Prereq.: MATH 115 (C- or higher) and MATH 121 (C- or higher), or MATH 119 (C- or higher). Limits and continuity, derivatives, applications of derivatives including transcendental functions. Antiderivatives, definite integrals with applications. Skill Area II

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 (formerly MATH 122 C- or higher). Topics include logic, induction, recursion, combinatorics, matrices, graph theory, set theory, and number theory.

MATH 220 Problem Solving II 1
Prereq.: MATH 120 (C- or higher) and 152 (formerly MATH 122, C- or higher). Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, trigonometry, and calculus. One two-hour lab per week.

MATH 221 Calculus II 4
Prereq.: MATH 152 (formerly MATH 122, C- or higher). 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 228 Introduction to Linear Algebra 4
Prereq.: MATH 152 (formerly MATH 122) C- or higher, and MATH 218 (C- or higher). Vector spaces, systems of linear equations, determinants, linear transformations, and matrices are considered.

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. [c]

MATH 307 Topics in Elementary Mathematics 1 TO 3
Prereq.: Permission of instructor. Selected elementary topics in mathematics covering specialized areas not offered in the regular curriculum. May be repeated with different topics for a maximum of 3 credits. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification Not recommended for use in meeting certification requirements for secondary school mathematics. Irregular.

MATH 313 Number Systems from an Advanced Viewpoint 2
Prereq.: MATH 218 (C- or higher) and MATH 221 (C- or higher). Examination of the content of elementary school mathematics from the point of view of teachers of secondary mathematics. Taken concurrently with either MATH 327 or 328.

MATH 320 Problem Solving III 1
Prereq.: MATH 220 (C- or higher) and 228 (C- or higher). Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, trigonometry, calculus, discrete mathematics, and linear algebra. One two-hour lab per week.

MATH 323 College Geometry 3
Prereq.: MATH 218 (C- or higher) and 221(C- or higher). Euclidean geometry from a modern viewpoint, with emphasis on the structure of deductive systems and methods of proof. Real number system as a model for Euclidean geometry, betweenness, separations and convexity, measure, congruence, parallelism, similarity, and construction. Spring.

MATH 327 Curriculum & Technology in Secondary Mathematics I 3
Prereq.: MATH 218 (C- or higher) or MATH 221 (C- or higher). Intended for students seeking certification to teach mathematics at the secondary level. Examination of the content of the mathematics curriculum in grades 7-12, with emphasis on the development of algebraic thinking across grade levels and the use of spreadsheets, function plotting software, and graphing calculators. Graphing calculator required. Fall. [c]

MATH 328 Curriculum & Technology in Secondary Mathematics II 3
Prereq.: MATH 218 (C- or higher) or MATH 221 (C- or higher). Intended for students seeking certification to teach mathematics at the secondary level. Examination of the content of the mathematics curriculum in grades 7-12, with emphasis on the teaching of geometry, probability, statistics, and discrete mathematics, including the use of geometric drawing programs, laboratory instrumentation, and the internet. Graphing calculator required. Spring. [c]

MATH 344 Mathematics in Diverse Cultures 3
Prereq.: MATH 152 (formerly MATH 122 C- or higher) or MATH 125 (C- or higher) or MATH 305 (C- or higher). Mathematical systems of different cultures around the world and their contributions to the development of mathematics. Recent trends in ethnomathematics research and ideas on multiculturalizing the mathematics classroom will also be discussed. Spring. (E) [I]

- 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. [c]
- MATH 410 Early Childhood Mathematical Methods 3
Prereq.: MATH 213 (C- or higher) and admission to the Professional Program in early childhood education. Concepts underlying contemporary mathematics curriculum for early childhood grades. Developmentally appropriate methods for developing concepts and the meaning of operations and procedures in arithmetic through problem solving. This course is for teacher certification only and graduate credit will not be granted.
- MATH 411 Clinical Experience in Mathematics Education 1
Prereq.: MATH 327 or 328 or permission of instructor. This course provides the prospective mathematics teacher with an opportunity to gain practical experience in a tutorial or small-group-instruction setting. The student will spend a minimum of three hours each week in the Math Center at CCSU, working one-on-one with small groups of students seeking help with mathematics. The director of the Math Center will coordinate and oversee the activities of students enrolled in this course (including receiving reports from cooperating teachers). May be repeated for up to 4 credits but cannot be taken more than once in any semester.
- MATH 412 Elementary Mathematical Methods 3
Prereq.: MATH 213 (C- or higher) and admission to the Professional program in elementary education. Concepts underlying contemporary mathematics curriculum for elementary grades. Developmentally appropriate methods for developing concepts and the meaning of operations and procedures in arithmetic. through problem solving. This course is for teacher certification only and graduate credit will not be granted.
- MATH 413 Teaching Mathematics in the Secondary School 4
Prereq.: MATH 327 and admission to the Professional Program in Secondary Teacher Education. Topics include planning for instruction, classroom management, promoting effective discourse, methods to address the needs of a diverse student population, and methods of assessment. Field experience required. Taken concurrently with EDSC 425.
- MATH 414 Middle Level Mathematics Methods 2 OR 3
Prereq.: MATH 121 or 125 or 152 (formerly MATH 122) (C- or higher), and admission to the Professional Program in middle level education. Concepts underlying contemporary mathematics curriculum at the middle level with emphasis on both the structure of the mathematics content and the procedures used in teaching for understanding. This course is for teacher certification only and graduate credit will not be granted.
- MATH 421 History of Mathematics 3
Prereq.: MATH 221 or for graduate students, admission to M.A., Mathematics or the M.S., Mathematics (for certified secondary teachers). Development of mathematics is traced from arithmetic of commerce, astronomy, geometry, and trigonometry in Babylonia, Egypt, Greece, and Rome to the later accomplishments in algebra, geometry, and calculus. Spring. (O)
- MATH 426 Student Teaching Seminar 1
Prereq.: MATH 413. Examination of problems which arise in secondary mathematics instruction. Taken concurrently with EDSC 435.
- MATH 440 Selected Topics in Mathematics 1 TO 3
Prereq.: Permission of instructor. Selected topics in mathematics covering specialized areas not covered in regular offerings or that go beyond that provided for in the standard curriculum. May be repeated with different topics for a maximum of 6 credits. Irregular.
- MATH 449 Mathematics Laboratory for Elementary School 3
Prereq.: MATH 412, 414 or 327 or equivalent and student teaching. Provides teachers in elementary school with the opportunity to make mathematical materials useful in teaching elementary mathematics. Each participant constructs mathematical models and manipulatives appropriate to his/her teaching level and interest. Mathematical projects and educational implications are discussed. Can be used to meet the requirements for a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting requirements for secondary school mathematics. Summer.
- MATH 463 Introduction to Differential Equations 3
Prereq.: MATH 221. Methods of solution of ordinary differential equations, including the Laplace Transform. Some elementary applications in geometry, physics and chemistry. Fall. (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 200 or 215 or 315, and MATH 110 or 228. Selected topics chosen from the areas of linear programming, decision analysis, and network analysis. Spring. (O)
- MATH 477 Numerical Analysis 3
Prereq.: MATH 221 and CS 151. Selected topics including difference operators, iterative methods of finding zeros of functions, interpolation and polynomial approximation, numerical integration and differentiation, matrices, and systems of linear equations. No credit given to students with credit for CS 254. Fall. (E) [c]
- MATH 491 Advanced Calculus 3
Prereq.: MATH 222. Topics from continuity and differentiability of functions of several variables, exterior differential forms, multiple and iterated integration, line integrals, Gauss', Green's, and Stokes' Theorems. Fall. (E)

MODERN LANGUAGES

- ML 106 Languages Across the Curriculum I 1
Prereq.: Permission of instructor. Interdisciplinary course in basic language attached to a course in a particular discipline. Study of selected foreign language material integrated with the content of the other course. Practice in oral and written expression. No previous language study required. May be repeated for a maximum of three credits. On demand.
- ML 146 Languages Across the Curriculum II 1
Prereq.: 112 level of a particular language or permission of instructor. Interdisciplinary course in basic language attached to a course in a particular discipline. Study of selected foreign language texts integrated with the content of the other course. Practice in oral and written expression. May be repeated for a maximum of three credits. On demand.

ML 400 Topics in Modern Languages 3
 Prereq.: Permission of instructor. Literary and language topics taught in the target language. May be repeated with different topics for maximum of 6 credits. On demand.

ML 420 Internship in Foreign Languages 1 TO 3
 Prereq.: Appropriate 226 course or equivalent in target language. Practical field experience using the target language. One credit per eight-week unit. May be repeated to a total of three credits. On demand.

ML 428 Methods and Materials for Teaching World Languages at Elementary School Level 3
 Prereq.: 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 — \$300.00 for 1/2 hour lesson (MUS 177) and \$400.00 for full hour lesson (MUS 178, 278, 378, 478). Contact the Department at 832-2912 for additional information.

MUS 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-Wind Ensemble 1
 Prereq.: Permission of instructor through audition. Open to all students who play band instruments. Various types of literature performed. May be repeated for credit with different content.

MUS 143 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: \$300 per semester. (Fee subject to change.)
- MUS 178 Applied Music for Majors 2
Individual instrumental or vocal instruction in performance. Open only to Music majors. May be repeated for a total of 6 cr. Fee: \$400 per semester. (Fees subject to change.)
- MUS 211 Ethnomusicology 3
Prereq.: MUS 121. Introduction to the discipline of ethnomusicology. Case studies explore different musical systems and their relationship to their cultural settings. Fall. [I]
- MUS 213 Jazz Styles and Chronology 3
Prereq.: MUS 113 or permission of instructor. Critical study of major jazz artists and the influence of their lives, culture, and music on the development of jazz. On demand.
- MUS 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 [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.
- 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.
- 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 259 Vocal Methods 1
Methods and materials of class instruction in voice. Open only to Music majors. Spring.
- MUS 261 Woodwind Class I 1
Beginning class instruction in woodwind instruments. Open only to Music majors. Fall.
- MUS 262 Brass 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 Class: 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 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 Methods 3
Prereq.: MUS 101 (C- or higher). Organization, aims, and supervision of elementary and middle school programs. Materials for teaching general music in the elementary and middle schools. Open only to Music Education majors. Fall.
- MUS 317 Choral and Instrumental Music Methods 4
Prereq.: MUS 310 (C- or higher). Organization, aims, methods and supervision of vocal and instrumental programs, and vocal and instrumental organizations in elementary, middle, and high schools. Discussion of special problems of choral and instrumental conducting and the selecting of choral and instrumental materials for elementary, Middle, and high school choirs and instrumental ensembles. Open only to Music Education majors. Spring.
- MUS 335 Music History III 3
Prereq.: MUS 236. Historical and theoretical study of works by major 20th century composers and their compositional procedures. Open to Music majors only. Fall.
- MUS 350 Piano Class III 2
Prereq.: MUS 251 or equivalent skill and permission of instructor. Continuation of MUS 251 with emphasis on keyboard skill. Harmonization of folk melodies, improvising to given chord pattern, sight-reading of community songs. Fall.
- MUS 351 Piano Class IV 2
Prereq.: MUS 350 or equivalent skill and permission of instructor. Continuation of MUS 350. Improvisation on more advanced level. Repertoire from various styles of piano literature. Spring.
- MUS 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 469 Music Theory Review 2
Prereq.: Four semesters of undergraduate music theory. Survey of the principles of diatonic and chromatic elements of theory. This course is a prerequisite to MUS 470 if graduate theory placement exam is not passed. Credits from this course may not be applied toward the M.S. degree in Music Education.
- MUS 470 Musical Structure and Style 3
Prereq.: Four semesters of undergraduate music theory or demonstrated proficiency on the Music Theory Placement Examination. Survey of the principles of music theory through analysis of representative forms from various style periods. Emphasis on aural awareness through melodic and harmonic dictation. Irregular.
- MUS 478 Applied Music for Majors IV 2
Prereq.: MUS 378. Individual instrumental or vocal instruction in performance. Open only to music majors. May be repeated for up to 4 credits in any one performing area. Special conditions: demonstrated proficiency at prerequisite level. Fee: \$400 per semester. (Fee subject to change.)
- MUS 495 Advanced Composition 2
Prereq.: MUS 395 or permission of instructor. Continuation of MUS 395. Principles and techniques of musical composition, emphasis on larger forms and independent work. Irregular.

NURSING

- NRSE 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 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 Family Health 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 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 and Peace through Films 1
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 3
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 some significant philosophies, including problems such as metaphysics, theories of knowledge, and theories of value. Study Area I

PHIL 121 Introduction to Philosophy through Literature 3
Introduction to philosophical inquiry pursued through literary works. Topics covered include the nature of literary understanding, its relation to philosophical inquiry, and the meaning and grounds of philosophical ideas about the identity and interpretations of a work of literature. Study Area I

PHIL 135 Nature, Mind, and Science 3
Introduction to philosophical problems concerning matter, life, mind, cosmology, and evolution from ancient times to the present. Fall. Study Area I

PHIL 144 Moral Issues 3
Critical examination (both practical and theoretical) of issues arising in the private and public conduct of one's life. Typical issues for examination are abortion, violence, capital punishment, and conflicts between personal values and professional duties. Spring. Study Area I

PHIL 220 Introduction to Logic 3
Introduction to formal systems of deductive reasoning (Aristotelian syllogism, Venn diagrams, sentential, and predicate logic), as well as non-deductive reasoning and the relations between logic and philosophy. Skill Area I

PHIL 222 Philosophy of Gender 3
Study of attitudes to gender in the history of philosophy, discussion of recent and contemporary issues and texts, and an introduction to feminist thought. Fall. (E)

PHIL 230 Ancient Greek Philosophy 3
Development of Greek philosophy from the pre-Socratics to Plato and Aristotle. Fall.

PHIL 232 Medieval and Renaissance Philosophy 3
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. Study Area I (E)

PHIL 235 Philosophy of Social Science 3
Study of philosophical questions related to the social sciences, including the origin and nature of the concept of social science and the relation between social science and natural science. Spring. (O) Study Area I

PHIL 240 Ethical Problems in Business 3
Critical examination (both practical and theoretical) of contemporary moral problems in business such as ethical investment, questionable foreign payments, disclosure, dumping, mergers, job discrimination, whistle-blowing, and big and small business responsibilities and regulations. Spring.

PHIL 241 Environmental Ethics 3
Critical examination of ethical problems concerning how people treat the land, air, plants, and animals. Fall. Study Area I (E)

PHIL 242 Ethical Problems in Technology 3
Critical examination (both practical and theoretical) of contemporary moral problems in technology, ranging from modern farming and manufacturing technologies to recombinant DNA, nuclear, modern surgical and computer technologies. Fall.

PHIL 245 Computer Ethics 3
Examination of ethical theories and principles relevant to issues regularly confronted by computer professionals and users, including privacy, intellectual property, expression, and codes of conduct. Fall.

PHIL 248 Philosophy of the Arts 3
Philosophical analysis of some of the concepts used in identifying, describing, and evaluating both works of art and aesthetic experience: expression, representation, form, content, interpretation. Fall. (O) Study Area I

PHIL 250 Introduction to Asian Philosophy 3
Broad survey of Indian and Chinese philosophical traditions. Fall. (E) Study Area I [I]

PHIL 255 Philosophy of Religion 3
Critical examination of important concepts, beliefs and arguments presented in world religions. Fall. Study Area I

PHIL 260 African Philosophy 3
Examination of some or all of the five leading trends in African philosophy; ethnophilosophy, sagacity philosophy, metaphilosophy, modern/critical philosophy, and liberation philosophy. Spring. Study Area I [I]

PHIL 275 Chinese Philosophy 3
Survey of Chinese philosophy from ancient times to the modern era, including early Confucianism and Taoism, Chinese Buddhist schools, Neo-Confucianism, and China's reaction to Western thought. Spring. (E) Study Area I [I]

PHIL 290 Philosophical Methods 3
Introduction to philosophical methods, including research of material, argumentation and writing, and oral presentation of topics within different philosophical traditions. Open only to philosophy majors or minors. Fall.

PHIL 320 Modern Logic 3
Prereq.: PHIL 220 or permission of instructor. Further study of sentential and predicate logic. The formal foundations of epistemology and metaphysics as applied to various philosophical problems such as logical paradoxes, and minds and machines. Irregular.

PHIL 330 Early Modern Philosophy 3
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. Fall. (E) [I]

PHIL 335 Philosophy of Science 3
Study of some contemporary philosophies of science, including theories of scientific revolutions, confirmation and refutation of scientific theories, hypothesis formation and theory testing, and scientific progress. Spring. (E)

PHIL 345 Philosophy of War & Peace 3
Philosophical concepts related to war and peace from the ancient world to modern times. including just war, perpetual peace, moral equivalent of war, non-violence, absolute and non-absolute pacifism, war crimes, cease fires and peace-keeping. Fall. [I]

PHIL 346 Ethical Theory 3
Examination of problems in theory about right and wrong, good and bad. Spring.

- PHIL 349 Philosophy of Law 3
The nature of law and of such correlative concepts as legal rights, obligations, responsibility and punishment. The logic of judicial reasoning. The relationship between law and morality. Fall. (O)
- PHIL 360 African-American Philosophy 3
Critical examination of the writings of African- American philosophers from 1619 to the present. Addresses issues in moral, social, and political philosophy. Spring. (O)
- PHIL 366 Existentialism 3
Some of the important existentialists in the 19th and 20th centuries, focusing on questions concerning human existence, such as freedom, responsibility, anguish, interpersonal relationship, and the meaning (or lack of meaning) of human existence itself. Spring. Study Area I [I]
- PHIL 368 Contemporary Epistemology and Metaphysics 3
Study of relations between language, thought, and reality by reference to the works of leading 20th century thinkers, both analytic and others. Spring.
- PHIL 376 Buddhist Philosophy 3
Critical survey of Buddhist philosophy from its Indian beginnings to its development in China, including contemporary aspects. Primary source material is used to illustrate key doctrinal developments. No credit given to those with credit for PHIL 276. Fall. [I]
- PHIL 382 Special Topics in Philosophy 3
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. Spring.
- PHIL 440 Project in Applied Ethics 3
Prereq.: PHIL 220, 346 and six credits from PHIL 144, 222, 240, 241, 242, 349, HHSP 246, 341, 342. Research in applied ethics. May include a practicum. Spring.
- PHIL 441 Philosophy Honors Thesis 3
Prereq.: Major in philosophy and approval of department. Undergraduate thesis on a topic in philosophy. On demand.
- PHIL 492 Independent Study 1 TO 3
Prereq.: Permission of instructor. Individual research in selected topics. Open to any student who wishes to pursue a topic of special interest for which the student is qualified. On demand.

PHYSICAL EDUCATION

Note: Students not majoring in Physical Education should see other courses under Recreation. PE 144 is required of all students who enter the University with fewer than 15 credits in fulfillment of the University requirement under Skill Area IV.

- PE 101 Coaching Permit: Legal Liability and Safety Aspects of Coaching 1
This course is designed to acquaint the student with a background in legal liability with specific reference to negligence, due process, and product liability. Summer, Winter.
- PE 102 Coaching Permit: Medical Aspects of Coaching 1
This course is designed to acquaint the student with the medical aspects of coaching adolescents. Instruction will include the care of, prevention of, and rehabilitation of athletic-related injuries. Summer, Winter.
- PE 103 Coaching Permit: Principles and Practices of Coaching 1
This course is designed to acquaint the student with the aspects of coaching which deal with the values of athletics in education, ethics, public relations, motivation, aggression and violence, anxiety and stress, and practice sessions. Summer, Winter.
- PE 110 Concepts in Fitness 2
Examines the general concepts of health-related physical fitness in a lecture/laboratory setting. Open to exercise science and athletic training students only.

- PE 111 Orientation to Physical Education 2
Examines the history, philosophy, and foundation aspects of physical education with allied fields. Open to physical education majors only.
- PE 112 Introduction to Athletic Training 2
Designed to acquaint the student with the academic and clinical requirements of the training major as required by CAAHEP accreditation. Requirements for NATABOC for introduced to the basic theories and principles of athletic related injuries. Fall.
- PE 113 Introduction to Exercise Science 2
The broad nature of the field of exercise science and the difference between exercise science and its sister discipline, physical education, will be examined. The development of exercise science as a discipline and the changes that exercise and society have undergone in the last decade. Discussion of exercise and sports psychology and motor behavior as they relate to human movement and behavioral terms. Fall.
- PE 144 Fitness/Wellness Ventures 2
Formerly PE 244. Benefits of healthy lifestyle incorporating fitness and wellness topics within a lecture and activity setting. Skill Area IV
- PE 201 Teaching Aerobics: Dance, Step and Aqua 2
Principles of teaching aerobic fitness activities in the dance studio and in the pool. Topics include dance design, safety concerns, basic steps, choreography, and exercise leadership skills. Open to Exercise Science students only. Spring.
- PE 210 Personal and Community Health 2
Prereq.: BIO 111 (C- or higher) or BMS 111 (C- or higher). Individual health problems of college students as well as optimum health patterns for the school, community, and home. Open to physical education, exercise science, and athletic training students only.
- PE 213 Anatomy in Physical Education 3
Prereq.: BIO 111 (C- or higher) or BMS 111 (C- or higher). Study of structure and function of the human body with emphasis upon skeletal, muscular, nervous, and respiratory systems as applied to physical activity. Open to physical education, exercise science, and athletic training students only.
- PE 214 Physiology in Physical Education 3
Prereq.: PE 213 (C- or higher) and CHEM 111 (C- or higher). Study of the function of the human body with emphasis on the muscular, circulatory, respiratory, and nervous systems as applied to physical activity.
- PE 215 Physiological Aspects of the Human Performance of the Aging 3
Prereq.: PE 214. This course will stress the physiological responses of exercise and the physiological rationale for lifelong physical activities for the aged. Fall.
- PE 216 Kinesiology 3
Prereq.: PE 214 (C- or higher) and PHYS 111 (C- or higher). Analysis and application of principles of mechanics as they relate to motor skills in physical activity.
- PE 217 Care and Treatment of Athletic Injuries 3
Prereq.: PE 213 (C- or higher). Prevention and treatment of athletic injuries with opportunity for practical application in prevention/protective strapping, acute injury care, fitting of protective equipment, and devising special padding. Course includes a 50-clock hour observation. Open to exercise science and athletic training students only.
- PE 218 Scientific Basis for Athletic Training 3
Prereq.: PE 217. Provides an opportunity to focus on concepts, theories, and techniques necessary for orthopedic evaluation of athletic injuries, pre-season screening and posture. Basic understanding of mechanism of injury and pathology will be emphasized. Spring.
- PE 219 Methods of Teaching Golf 1
Designed for the student to teach and perform various golf swings and to learn golf course strategies and course management. Open to physical education students only. 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 1
Effectively organize and implement a variety of games experiences for primary grades, intermediate grades and middle school. Emphasis on selection of age-appropriate games and demonstration to involve children in the analysis and modification of games. Open to Physical Education majors only. Fall.
- PE 279 Methods of Teaching Team Sports 2
Methods course in the fundamental skills and techniques of team sports. Focus on preparing students to plan teaching strategies for skill attainment and proper teaching progressions. Open to Physical Education majors only.
- PE 300 Developmental Movement 3
Application of Laban's Movement Framework to the teaching of elementary physical education. Includes rhythmic activities, folk dance, and developmentally appropriate games. Open to physical education students only.
- PE 305 Evaluation in Physical Education 3
Prereq.: STAT 104. Measurements in health and physical education. Emphasis on modern tests of physical fitness, skills, knowledge, and general motor ability. Fall.
- PE 307 Human Nutrition 3
Prereq.: CHEM 111 (C- or higher). Principles and concepts of normal human nutrition applied to various stages in life and activities especially as they relate to health promotion and weight control. Motivational skills for fitness, adherence to healthy nutrition, and strategies for evaluating health and fitness claims will be discussed. Open to physical education, exercise science and athletic training students only.
- PE 311 Stress Management 3
Prereq.: PE 210 (C- or higher), PSY 112. Examines the physical and mental phenomena that constitute stress and the effects of negative stress on the body. Presents strategies for managing and coping with stress, increasing self control, and adaptive behavior.
- PE 314 Baseball Officiating 2
Rules and techniques of officiating interscholastic and intercollegiate baseball. The course includes field experience and classroom lecture. Spring. (O)
- PE 315 Practicum in Athletic Training I 2
Prereq.: PE 217, admission to the Professional Program in Athletic Training. Students also must have one semester of clinical experience in CCSU's athletic training facility. Sixteen weeks of supervised NATABOC approved athletic training experience hours in CCSU's athletic training facility. Experience includes basic first aid, evaluation, taping, wrapping, design and application of protective equipment, preparing teams for competition, and maintaining the athletic training training facility room. Will include weekends, unusual hours, holidays and off-campus observations.
- PE 316 Practicum in Athletic Training II 2
Prereq.: PE 218, PE 315 and admission to the Professional Program in Athletic Training. Sixteen weeks of supervised NATABOC approved athletic training experience hours in CCSU's athletic training facility. Includes evaluating athletic injuries, establishing treatment and rehabilitation plans, and maintaining medical records. Will include weekends, unusual hours, holidays, and off-campus observations.
- PE 317 Therapeutics in Athletic Training 3
Prereq.: PE 217. Introduction to the theories and techniques of manual muscle length testing, goniometry, and isokinetic testing with emphasis on rehabilitation of injuries sustained to the athletic population. Fall.
- PE 319 Practicum in Athletic Training III 2
Prereq.: PE 316, PE 317 and admission to the Professional Program in Athletic Training. Sixteen weeks of supervised NATABOC approved athletic experience hours in CCSU's athletic training facility. Includes pre-season screening and physicals, general issues and neurological evaluations, and advanced rehabilitation skills. May include weekends, unusual hours, and holidays.
- PE 332 Psychological Aspects of Sport 3
Psychological aspects of sport participation are reviewed with emphasis on coach and player issues. Topics will include burn out, stress management, arousal, motivation. Course aims to broaden student background in these topics and the interpersonal relationships between coaches and players at the adolescent and youth sport levels. Spring. (O)
- PE 337 Group Process in Health Education 3
Prereq.: PE 210 or permission of instructor. A survey of individual and group processes that relate to school health instruction. Students will learn how to facilitate groups for effective interaction. Group approaches will be applied to a variety of health education populations. Concentrates on the role of the group leader and the group leader and the interpersonal relationships of groups. Irregular.
- PE 350 Methods of Teaching Racquet Sports. 3
Survey course in racquet sport skills and techniques that will focus on application of motor learning and kinesiological principles for personal skill development as well as teaching/coaching application. Activity course. Open to physical education majors only.
- PE 374 Methods of Teaching Fitness 3
Prereq.: PE 214 (C- or higher). Introduces the prospective teacher of physical education to a philosophy of helping to prepare public school age children for a lifetime of fitness through physical education. Emphasis on health-related fitness, aerobic, anaerobic, plyometric, stretching activities and resistance trainings. Open to physical education majors only.
- PE 375 Training for Fitness 3
Prereq.: PE 214 (C- or higher). Designed to enhance fitness levels and to develop the knowledge and skills required to organize a safe and effective physical fitness program. Activity course. Open to exercise science, and athletic training majors only.
- PE 380 Leadership in Exercise and Wellness 2
Prereq.: PE 210 (C- or higher), 375 (C- or higher). Opportunities for students to gain knowledge assisting instructor in the Fitness/Wellness course. Students will learn to lead exercise sessions and engage in health promotion activities. Open to exercise science students only. Spring.
- PE 383 Recreation and Physical Activity for the Aging 3
Prereq.: PE 214 and PE 375 (both with 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.
- PE 398 Exercise for Special Populations 3
Prereq.: PE 214 and 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.
- PE 402 Organization and Administration of Physical Education 3
Prereq.: Admission into the Professional Program in Teacher Education. Administrative procedures involved in conducting physical education activities, arranging programs, providing facilities and handling staff-class details, finance, publicity, interscholastic, and intramural activities. Fall.
- PE 404 Secondary Methods in Physical Education 3
Coreq.: PE 405. Prereq.: PE 272 and PE 300 (or permission of instructor) and admission into the Professional Program in Teacher Education. Curricular content of physical education for secondary teaching is discussed and analyzed. Methods and techniques of teaching are presented and opportunities for teaching provided. Course is a prerequisite to student teaching. Open only to Physical Education majors.

- PE 405 Elementary Methods in Physical Education 3
Coreq.: PE 404. Prereq.: PE 272, and PE 300 (or permission of instructor) and admission to the Professional Program in in Teacher Education. Application of the child-centered, problem-solving approach as a method to learning fundamental concepts of movement. Discussion, observation, and laboratory experience will provide theoretical background. An off-campus practicum is included.
- PE 406 Adapted Physical Education 3
Prereq.: PE 214 (C- or higher), 272, 305. Pedagogical skills and knowledge pertaining to physical education for individuals with disabilities and gifted and talented individuals. Emphasis on program planning and teaching effectiveness in the psychomotor domain. Fall.
- PE 408 The Curriculum Process in K-12 Physical Education 3
Prereq.: Admission to the Professional Program in Teacher Education. Identification of competency-based, goal-oriented activities appropriate to K-12 physical education. Emphasis on program development and design, instructional process, program implementation, and evaluation. Fall.
- PE 409 Psycho-Social Aspects of Physical Education 2
Prereq.: Admission to the Professional Program in Teacher Education. Foundation and practical psychological and sociological information for the improvement of physical education in today's society. Spring.
- PE 410 Exercise Physiology 3
Prereq.: PE 214 (C- or higher) and acceptance into Professional Program or acceptance to M.S., Physical Education. Physiological factors which affect human performance in physical education and athletics. Acute and chronic effects of exercise on the respiratory, circulatory and muscular systems. Required laboratory class taken in conjunction with lecture to give students the opportunity to gain knowledge of basic scientific and field tests in exercise physiology. Open to physical education, exercise science, and athletic training students only.
- PE 411 Organization and Management of Health Promotion Programs 3
Prereq.: Admission to the Professional Program in Exercise Science or acceptance to M.S., Physical Education. Management procedures involved in administration of health promotion programs. Emphasis on needs assessment, program goals, program implementation and program evaluation. Spring.
- PE 412 The Application of Tort Law to Physical Activity 3
Prereq.: Junior/senior standing. Designed to acquaint students majoring in exercise science, in the areas of health/fitness promotion, with negligence theory related to physical activity. Emphasis will be on risk standard of care, and standards within the field. Spring.
- PE 413 Organization and Administration of Athletic Training 2
Prereq.: CS 115 and admission to the Professional Program in Athletic Training. Theories and skills involved in managing and organizing an athletic training program including pre-participation physicals, drug testing and human resource issues. Focus includes facility design, budgeting, legal issues, medical records and public relations for the certified athletic trainer. Spring. (O)
- PE 414 Physiology of Sport and Exercise 3
Prereq.: PE 214 and PE 307 (both with 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.
- PE 415 Fitness Assessment and Exercise Prescription 3
Prereq.: PE 307 and PE 410 and admission to the Professional Program in Exercise Science or acceptance to M.S., Physical Education. Provides an opportunity to study the theories, concepts, procedures, and techniques necessary for the ACSM health fitness instructor certification. Basic understanding of fitness assessment, exercise prescription, intervention and rehabilitation programs will be emphasized. Open to exercise science and athletic training students only.
- PE 418 Health Education: Methods, Materials & Resources 3
Prereq.: Admission to Professional Program of permission of department chair. Prepares teachers to plan, implement and evaluate instruction in a health class. State and National Standards, instructional strategies, and learner assessment are covered. Topics include violence prevention, human sexuality and stress management. Field experience required. Spring.
- PE 420 Lifespan Motor Development 3
Prereq.: PE 300, and admission to the Professional Program in Teacher Education or graduate status. Surveys the information concerning motor learning for the young learner. Emphasis upon perceptual-motor learning and development of task analysis. Fall.
- PE 421 Pharmacology in Sports Medicine 3
Prereq.: PE 307 and admission to the Professional Program in Athletic Training or Exercise Science. Basic principles of pharmacology, pharmacokinetics, and commonly prescribed therapeutic medications in an athletic population. Introduction to contemporary medications, social drugs, and performance enhancers used in sports medicine. Spring.
- PE 422 Motor Learning 3
Prereq.: Admission to the Professional Program in Teacher Education or acceptance to M.S. Physical Education. Examines the principles of motor learning which affect skill acquisition of secondary and post-secondary school learners. Spring.
- PE 425 Implementation and Evaluation of Health Promotion Programs 3
Prereq.: PE 307 and 410 and admission to the Professional Program in Exercise Science or acceptance to M.S., Physical Education. Comprehensive planning framework for health promotion programs in the U.S., which includes identification of health needs of the population, determining how to change health behaviors, marketing programs, and evaluation of health benefits to the individual and organizations. Open to exercise science students only. Fall.
- PE 440 Therapeutic Modalities in Athletic Training 4
Prereq.: PE 218 or 317. Study of the effects of therapeutic modalities on athletic injuries. Topics include pain and its control, modality principles, indications, and contradictions. Emphasis on safe operation and application of modalities, manual therapy, and foot biomechanics. Two lectures and one one-hour laboratory. Fall.
- PE 445 Internship in Athletic Training 6
Prereq.: PE 319, 440 and admission to the Professional Program in Athletic Training. Students also must have State of Connecticut EMT-B Certification. Internship under the direct supervision of a certified athletic trainer. May occur in a sports medicine, public or preparatory school, or college/university setting. May require weekends, unusual hours, and holidays.
- PE 450 Practicum in Exercise Science 3
Prereq.: PE 375 (C- or higher), 415, 425, CS 115 and admission to the Professional Program in Exercise Science or graduate status. Provides an opportunity for students to gain 150 clock hours of field experience in an exercise setting, conducting prescribed exercise programs. Fall, Spring, Summer.
- PE 470 Internship in Exercise and Health Promotion 6
Prereq.: PE 450 and admission to the degree program in Physical Education or graduate status. Full semester off-campus practical experience in a health and fitness program. Topics include wellness/health promotion, corporate fitness, YMCA, strength and conditioning, sports medicine, and cardiac rehabilitation. Enhances professional preparation by offering opportunities to apply fundamental concepts in a work setting. Fall, Spring, Summer.
- PE 490 Independent Study in Physical Education 1 TO 3
Prereq.: Senior standing and permission of department chair. Reading and research in approved topics under the guidance of a member of the department. May be repeated for a total of 3 credits.

PHYSICS

- PHYS 111 Introductory Physics I 3
For students who do not plan to major or minor in science. Includes study of selected topics from mechanics, heat, electricity and light, and modern physics. Not open to students who have received credit for SCI 117. Two lectures and one two-hour laboratory per week. Study Area IV

- PHYS 113 The Sound of Music 3
An introductory course covering the physical basis of music, sources of sound, transmission and detection of sound waves, characteristics of sensation of sound and their physical correspondents, and general consideration of architectural acoustics. Two lectures and one two-hour laboratory per week. Spring. Study Area IV
- PHYS 121 General Physics I 4
Prereq.: MATH 121, or MATH 119, or MATH 124 or MATH 115 and 125 (may be taken concurrently). Fundamental principles of mechanics and properties of matter; heat and sound. Three lectures and one three-hour lab per week. Study Area IV
- PHYS 122 General Physics II 4
Prereq.: PHYS 121. A continuation of PHYS 121. Electricity (DC and AC), magnetism, optics, and atomic phenomena. Three lectures and one three-hour laboratory per week. Study Area IV
- PHYS 125 University Physics I 4
Prereq.: MATH 152 (formerly MATH 122), may be taken concurrently. Introductory course for science/engineering students which uses calculus. Fundamental principles of mechanics, heat, and sound. Three lectures, one recitation, and one three-hour laboratory per week. Credit not given to students who have had PHYS 121. Study Area IV
- PHYS 126 University Physics II 4
Prereq.: PHYS 125. Continuation of PHYS 125. Study of electricity, magnetism, and optics. Three lectures, one recitation and one three-hour laboratory per week. Study Area IV
- PHYS 220 Mechanics I 3
Prereq.: PHYS 122 or 126, MATH 222 (may be taken concurrently). Vector formulation of kinematics and dynamics of particles and rigid bodies. Topics include Newton's laws, momentum, energy, moving coordinate systems, central force motion, and the harmonic oscillator. Irregular.
- PHYS 250 Intermediate Lab I 1
Prereq.: PHYS 125, 126 and 220 or 320 (may be taken concurrently). Laboratory course with experiments performed in mechanics, heat, and thermodynamics. One three-hour laboratory per week. Irregular.
- PHYS 305 Foundations of Electricity and Magnetism 3
Prereq.: PHYS 220 and MATH 222. Electrostatics, circuit theory, electromagnetic fields of steady and alternating currents, solutions of Laplace's equation, Maxwell's equations, and propagation of electromagnetic waves. Irregular.
- PHYS 320 Heat and Thermodynamics 3
Prereq.: PHYS 122 or 126, MATH 222. Nature and measurement of heat, 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 (formerly MATH 122) and junior standing. Study of basic electrical elements leading to an understanding of analog and digital circuits used in computers. For computer science, physical science and life science majors. Not open to students with credit for PHYS 331. Three lecture hours and one three-hour lab per week. Irregular.
- PHYS 340 Computer Electronics II 4
Prereq.: PHYS 339. Investigation of microprocessor devices, architecture, instruction set, addressing, and interfacing. Experimentation with microcomputer systems and peripherals. Three lecture hours and one three-hour laboratory per week. Irregular.
- PHYS 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 [I]
- POL 125 Intermediate Polish I 3
Prereq.: One year of college Polish or equivalent. Principles of Polish structure are reviewed. Short stories and poems are read and discussed. Conversation and composition topics given to improve oral and written expression. Fall. 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. [I]
- PS 232 Ancient and Medieval Political Thought 3
Political thought from Plato to Machiavelli. Fall. Study Area I
- PS 235 International Relations 3
Introduction to study of international relations, including international politics, international law and morality, international organization, international conflict and cooperation and the foreign policies of the major powers. Study Area II [I]
- PS 241 Women and American Law 3
Examines the evolution of women's legal rights in the United States. Special attention given to the legal status of women in the economic, political, educational, and judicial sectors of society. Fall. (E)
- PS 260 Public Administration 3
Prereq.: PS 104 or 110. Study of administrative theory and the politics of bureaucracy. Assigned readings, field projects, and research papers. Study Area II
- PS 280 Religion & 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) [c]
- PS 345 International Terrorism 3
Examination of definitions, history, philosophy, and theories of international terrorism, as well as tactics and strategies of terrorist groups and responses of governments, with emphasis on policy alternatives and civil liberties dilemmas for democratic countries combatting terrorism. [I]
- PS 380 International Conflict and Security 3
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.

- 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.
- PS 492 Policy Studies 3
Analysis and evaluation of specific policy issues at the state and national levels of government. Topics will vary from year to year. If topics differ, may be taken more than once. Irregular.

PSYCHOLOGY

Note: Junior standing is recommended for 300-level courses; junior or senior standing is required for 400-level courses.

- PSY 112 General Psychology I 3
Major areas involved, with emphasis on scientific methods and application to systematic study of human behavior. Required of all psychology majors and minors in the B.A. and B.S. programs. Study Area III
- PSY 113 Exploring Psychology 1
Prereq.: PSY 112 (may be taken concurrently). Introduction to the academic, professional, and ethical aspects of the field of psychology. Develops critical thinking, research, library, and information acquisition for psychology. Also explores career options. Open only to Psychology majors or with permission of instructor. [c]
- PSY 125 Environment & 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 3
Prereq.: PSY 112 (C or higher) and STAT 215 (C or higher). Introduction to research problems in psychology, with an emphasis on experimental designs which employ a single independent variable. Each student will plan an independent research project. Two-hour lecture and two-hour laboratory per week. Required for all psychology majors. [c]
- PSY 222 Research Methods in Psychology II 3
Prereq.: PSY 221 (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. Each student will complete the independent project proposed in PSY 221. Two hour lectures and two-hour laboratory per week. Required of all psychology majors. [c]
- PSY 234 Industrial and Organizational Psychology 3
Prereq.: PSY 112 or permission of instructor. Application of psychological theory, knowledge, and methods to behavior in industry and organizations.
- PSY 236 Life-Span Development 3
Human development from conception through old age, considering physical, emotional, social, and intellectual factors. Required of all psychology majors. Study Area III
- PSY 239 Survey of Research Methods 3
Prereq.: MATH 213 or STAT 215. Introduction to research methods, techniques, and resources in the social sciences. Emphasis will be on critical evaluation of existing research. Cannot be used to meet the requirements for a major in psychology.
- PSY 241 Introduction to Health Psychology 3
Prereq.: PSY 112. Examination of how psychological processes impact health, both positively and negatively. Topics include health-related behaviors, stress, coping, and management of chronic illness such as cancer, diabetes, heart disease, and HIV/AIDS. 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 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. 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 446 Introduction to Psychotherapy and the Psychology of Counseling 3
Prereq.: PSY 330 and 6 other credits in Psychology or permission of instructor or admission to M.A. Psychology. An introduction to the basic theories underlying psychotherapeutic process. Explores the primary assumptions of the behavioral, biological, cognitive, humanist-existential, and psychodynamic models. Topics include ethical and professional standards and diversity. Spring.
- PSY 448 Psychology of Women 3
Review of research and theories pertaining to the psychology of women. The dynamic aspects of being female in the development of cognitive, emotional, motivational, and social behavior is emphasized. Psycho-social implications and consequences of changing sex roles will be examined.

- PSY 450 Biopsychology 3
Prereq.: Six credits in psychology or permission of instructor. Analysis of relationships between bodily processes and behavior.
- PSY 451 Psychological Evaluation 3
Prereq.: Three courses in psychology. Principles and problems basic to construction, choice and use of psychological measuring instruments, and study of application to diagnosis. Special Condition: completion of additional project by graduate students. Fall.
- PSY 454 Drugs and Behavior 3
Prereq.: PSY 112. Overview of the major classes of psychoactive drugs and their effect on the brain and behavior. Legal drugs, such as alcohol and caffeine, and illegal drugs are considered.
- PSY 458 Human Neuropsychology 3
Prereq.: PSY 330 and 450, or permission of instructor. Relationship between the brain and behavior is examined. Topics include disorders of speech and memory, common neurological disorders such as dementia and stroke, and alcohol-related disorders. Spring.
- PSY 460 Behavior Modification: Theory and Practice 3
Prereq.: PSY 200 or permission of instructor. Application of learning principles to the modification of both normal and abnormal behavior. The settings for application include areas such as personal, social, and marriage counseling; individual and group psychotherapy; formal and informal education and re-education; personal, vocational, and correctional rehabilitation.
- PSY 462 Psychology of Early Childhood 3
Prereq.: PSY 236. Study and observation of young children (birth to age six), with emphasis on the development, origins, and dynamic processes of behavior within this age range.
- PSY 470 Theories of Personality 3
Prereq.: Three courses in psychology. Nature of personality theory and critical analysis of major contemporary theories of personality, including empirical evidence relevant to these theories.
- PSY 490 History & 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 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/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 166 Tennis 1
Fundamentals and techniques in practicing and playing tennis.
- REC 168 Weight Training 1
Tactics, strategy, and proper methods in performing a variety of weight training techniques.
- REC 169 Golf 1
This course is designed to perform various golf strokes and the proper methods of how to play the game of golf.
- REC 200 Beginning Swimming 1
How to perform the proper tactics and fundamentals for beginning swimmers.
- REC 230 Intermediate Swimming 1
This course is designed to acquaint, practice, and perform correct swimming techniques for intermediate swimmers.
- REC 232 Lifeguard Training 2
Prereq.: Successful completion of the American Red Cross Screening test (administered during the first week of class). Provides skills to respond effectively to medical and aquatic emergencies. American Red Cross Certification in First Aid, CPR and Lifeguarding may be obtained.
- REC 233 Water Safety Instructor's Course 2
Prereq.: 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 TO 6
Study of selected topics in religion to be announced. Students may not take this course under the same topic more than once. On demand.
- 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 117 Physical Science 3
Everyday aspects of physical science, with emphasis on conceptual understanding of the physical world around us, using basic principles of physics and chemistry. Two lectures and one two-hour laboratory per week. Spring. Study Area IV.
- SCI 412 Elementary Science Methods 2
Prereq.: BIO 211, one course in ESCI (ESCI 111 recommended), admission to the Professional Program in Teacher Education. Methods of science instruction and assessment using developmentally appropriate activities. Introduction to science curriculum, the National Science Standards, and the State of Connecticut Frameworks. Not open to Summer Through Summer participants without permission of instructor.
- SCI 416 Educational Technology in Secondary Science 1
Prereq.: Admission to the Professional Program in Teacher Education. Taken concurrently with SCI 417. Examination and use of software applications, hardware, and the Internet in the context of integrating educational technology into science curriculum.
- SCI 417 Teaching of Science in the Secondary School 3
Prereq.: Admission to the Professional Program in Teacher Education. Taken concurrently with SCI 416. Examination and application of curriculum, instruction, and assessment strategies in line with national and state standards/frameworks and CSDE certification requirements, including the BEST program and science teaching portfolio development.
- SCI 419 Student Teaching Seminar 1
Prereq.: SCI 417 (EDSC 435 taken concurrently). Discussion, reflection, and collaboration with peers on issues that arise in secondary science education in the areas of curriculum, instruction, classroom management, and student assessment.
- SCI 420 History of Science 3
Prereq.: Three courses in science or mathematics, or permission of instructor. Historical development of biological and physical science, interdependence of various areas of science, and relations of scientific progress to society.
- SCI 452 Independent Study in Science 1 TO 6
Prereq.: Approved plan of study by arrangement with the supervising instructor and approval of the science department chair. Includes special work in the laboratory or study of theory to meet the individual requirements in areas not covered by the regular curriculum. May be taken for more than one semester up to a limit of 6 credits. On demand.
- SCI 453 Environmental Interpretation Internship 3
Prereq.: Prior completion of two field trips to environmental education facilities approved by advisory committee and senior standing. Responsible experiences in an environmental education facility. Before commencing the internship, a plan of the internship must be approved by the Advisory Committee on Environmental Interpretation.
- SCI 456 Teaching Science to Young Children 3
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.

SOCIAL WORK

- SW 226 Social Welfare Policy and Services I 3
Prereq.: SOC 110 or ANTH 140, SOC 111 and PS 110 or 230. Exploration of the historical background of social work and social welfare institutions in the United States and around the world; knowledge, values, and practice skills that distinguish social work as a discipline. Field work required. Pre-Social Work majors only. Fall.
- SW 227 Human Behavior and the Social Environment I 3
Prereq.: BIO 111, SOC 233. Examination of individuals, families, and communities, taking an ecological perspective of the life span; various cultural, economic, and ethnic factors that influence lives; application of social work values and how these relate to developmental tasks in a socio-political environment. Field work required. Pre-Social work majors only. Spring.
- SW 360 Generalist Social Work Practice with Individuals and Families 3
Prereq.: SW 226, 227 and admission to Social Work major. Study of delivery of direct service to individuals and families interacting within groups and communities; tasks and skills necessary for generalist social workers to empower clients to modify and change their situations. Field work required. Fall.
- SW 361 Generalist Social Work Practice with Small Groups 3
Prereq.: SW 226, 227 and admission to Social Work major. Use of the small group as a resource for delivering direct service in generalist social work practice; tasks and skills necessary for the social worker to use group process to empower clients. Field work required. Spring.
- SW 362 Generalist Social Work Practice with Families, Organizations, and Communities 3
Prereq.: SW 360 and 361. Interventions and strategies for assisting families, organizations, and communities in the context of generalist social work practice; tasks and skills necessary to bring about change in large systems. Recommended SW 450 and 451 or SW 452 and 453 be taken concurrently. Fall.
- SW 368 Human Behavior and the Social Environment II 3
Prereq.: SW 360 (may be taken concurrently) and admission to the Social Work major. The ecosystems framework provides the framework to examine systems of all sizes; families, groups, organizations, and communities. Special attention given to the impact of human diversity, discrimination, and oppression in the context of these social systems. Field work required. Fall.
- SW 374 Introduction to Social Work Research 3
Prereq.: STAT 215. Research knowledge and skills essential for beginning social work practice. Theory of social research, hypothesis testing, research design, sampling, data collection techniques, and ethical issues germane to social workers. Quantitative and qualitative research and the problem-solving model, associated with a research proposal applicable to social work practice, will be developed. Fall.
- SW 426 Social Welfare Policy and Services II 3
Prereq.: SW 360, 361 and ECON 200. Uses of policy analysis and planning as intervention strategies in generalist social work practice. Recommended that SW 450 and 451 or SW 452 and 453 be taken concurrently. Spring.
- SW 433 Independent Studies in Social Work 3
Prereq.: Senior standing in the Social Work major and permission of the program director. Student must have a written study proposal approved by the program director prior to registering for this course. Readings and research in selected areas of social work. On demand.
- SW 436 Health and Social Work 3
Prereq.: SW 226 and 227; or permission of the instructor. Examination of health issues such as cancer, AIDS, Alzheimer's, and other disabilities; prevention, treatment, and attitudes; policies and programs in both public and private sectors which impinge upon the lives of clients with health problems. Irregular.
- SW 437 Child Welfare I 3
Prereq.: SW 226 and 227; or permission of the instructor. Examination of the role of the social worker in meeting the needs and protecting the rights of children. Irregular.
- SW 438 Child Welfare II 3
Prereq.: SW 226 and 227; or permission of instructor. Examination of current social issues, such as war, poverty, and divorce, that impact the lives of children. Irregular.
- SW 441 Puerto Ricans in Transition: A Social Work Perspective 3
Prereq.: Permission of instructor. Overview of critical areas in understanding the Puerto Rican population on the island and in the U.S. Puerto Rican history, migration, demographic trends, culture, socio-political issues, family, and gender roles will be explored, in addition to health, education, employment and poverty. Micro/macro approaches to providing culturally relevant intervention. 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 Practicum I 3
Prereq.: All other requirements for the major except SW 362 and 426 (may be taken concurrently with this course); completed field application and permission of field coordinator. Placement in a social work agency in the community for a minimum of 200 hours. Students are engaged in social work roles and activities which help them to develop generalist practice skills and knowledge. Must be taken concurrently with SW 451.
- SW 451 Field Practicum Seminar I 3
Prereq.: All other requirements for the major except SW 362 and 426 (may be taken concurrently with this course); completed field application and permission of field coordinator. Shared learning experience among all students placed in a community social work agency to provide an opportunity for information exchange in depth. Case processes and agency analysis are required. Social work philosophies, values, and ethics in the social service delivery system are reinforced. Relevant readings, assignments, and projects to help students integrate theory and practice. Must be taken concurrently with SW 450.
- SW 452 Field Practicum II 3
Prereq.: SW 450 and 451 and permission of field coordinator. Continued placement in a social work agency in the community for a minimum of 200 hours. Students are engaged in social work roles and activities which further prepare them for professional practice responsibilities. Must be taken concurrently with SW 453.

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

SW 478 Current Topics in Social Work 3
Prereq.: Permission of instructor. Analysis and evaluation of special topics in the general field of social work. Topics will vary from year to year. If topics vary, may be taken more than once. Irregular.

SOCIOLOGY

SOC 110 Introductory Sociology 3
Major theoretical models and research methodologies used by sociologists in examining the institutions of societies and everyday lives of individuals. Topics include social stratification, ethnic relations, race, poverty, gender roles, aging, the family, population and urban/suburban communities. Study Area III

SOC 111 Social Problems 3
Conditions or patterns of behavior that are considered to be harmful to society or its members, about which it is considered that something should be done. Included as possible topics are sexism, physical and mental health, drug and alcohol abuse, sexuality, inequality, discrimination, environmental problems and abuses of power. Study Area III

SOC 210 Sociological Inquiry 3
Prereq.: SOC 110. Exposes students to the sociological imagination, the link between theory and methods, how evidence is assembled to produce explanations of social phenomena, and the impact of sociological knowledge on public policy and culture.

SOC 212 Race, Class, and Gender 3
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. 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 332 The Sociology of Poverty 3
Prereq.: SOC 110. Analysis of poverty conditions and their causes in historical and cross-cultural perspectives. Role of poor in the larger social system and on the way needs and potentialities of the poor are determined. 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. [c]

SOC 412 Qualitative Analysis 3
Prereq.: SOC 310. Intensive exposure to participant observation, in-depth interviewing, and content analysis. Emphasis on the collection, coding, and interpretation of primary data. Additional focus on the ethics and politics of qualitative research designs.

SOC 425 Information, Images, and Inequality 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Examination of the new forms of property, value, social control, identity formation, social relations and class inequities that have emerged with the information age and the electronic marketplace. Presents a political economy of virtual reality. Irregular.

SOC 433 Independent Studies in Sociology 1 TO 3
Advanced study and projects in sociology of special interest to students under the supervision of one or more department members. May be taken for 1, 2, or 3 credits. May be repeated for a maximum of six credits. On demand.

SOC 440 Death and Dying: Sociological Implications 3
Prereq.: SOC 110. Different cultural, social, and historical perspectives on death and their impact on social roles and institutional change. Problems faced by the health care profession in meeting the needs of the terminally ill and the bereaved. Student will be required to have a field experience with a terminally ill patient and/or bereaved family. 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 450 Social Justice and Civil Society 3
Prereq.: SOC 110. Examination of situational contexts, institutional structures, and cultural differences on social justice concerns in a civil society. Emphasis on distributive, procedural, interactive, and/or organizational justice. Analysis of criteria used to assess justice and examination of responses to real and/or perceived injustices. Irregular.
- SOC 452 Organizations, Occupations, and Work 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Systematic study of large scale, bureaucratic organizations with emphasis on relations among the organization's members, the organization as a social entity and its social and physical environment. 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 490 Community Intern Experience 3
Prereq.: Sociology major with 2.70 GPA or higher and two letters of recommendation addressing academic ability and maturity. Taken concurrently with SOC 491. Accepted students are assigned to work in either a profit or nonprofit community-based organization for 6 to 8 hours per week. 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 [I]
- SPAN 118 Intensive Elementary Spanish 6
Open only to students with one year or less of Spanish at the high school level. Not open to native speakers of Spanish. No credit for students who have received credit for SPAN 111 and/or SPAN 112. Intensive oral-proficiency based Spanish language course designed to bring students to intermediate level production and receptive skills in one semester. Six classroom hours per week. Only three credits may be applied toward the International requirement. Skill Area III [I]
- SPAN 123 Basic Spanish Review 3
Prereq.: Three years of Spanish in high school or equivalent preparation. Refresher course in structure patterns and sound systems of the Spanish language. Open only to non-native speakers of Spanish. No credit will be given to those with credit for more than three years of high school study of Spanish. Skill Area III [I]
- SPAN 125 Intermediate Spanish I 3
Prereq.: One year college Spanish or equivalent. Principles of Spanish language structure reviewed. Short stories and plays are read and discussed. Conversation and composition on topics of general interest. Open only to non-native speakers of Spanish. No credit given to students with credit for more advanced course work in Spanish. Skill Area III [I]
- SPAN 126 Intermediate Spanish II 3
Prereq.: SPAN 125 or equivalent. Continuation of SPAN 125 with the study of grammatical structures. Open only to non-native speakers of Spanish. No credit given to students with credit for more advanced course work in Spanish. Skill Area III [I]
- SPAN 128 Intensive Intermediate Spanish I 6
Prereq.: One year of college Spanish or equivalent. Equivalent to SPAN 125-126. Development of speaking, reading and writing skills, and awareness of Hispanic cultures. Review of selected grammar. No credit given to students with more advanced Spanish coursework. Six classroom hours per week. Open only to non-native speakers of Spanish. Fall, Spring, Summer. Skill Area III [I]
- SPAN 190 Spanish for Spanish Speakers I 3
Prereq.: Permission of instructor. Designed to improve diction, reading and writing skills, and to study grammar of standard Spanish and dialect variations. Short stories, plays, and newspaper articles are read and discussed. Open only to native speakers of Spanish. Fall. Skill Area III [I]
- SPAN 191 Spanish for Spanish Speakers II 3
Prereq.: Permission of instructor. Continuation of SPAN 190. Further study of grammar and additional practice in diction, reading, and writing. Eligible Spanish speakers will take this course in place of SPAN 126. Spring. Skill Area III [I]
- SPAN 225 Intermediate Spanish III 3
Prereq.: SPAN 126 or permission of instructor. Designed to help students improve speaking skills through the discussion of contemporary texts. Further study of grammar. Open only to non-native speakers of Spanish. Fall. Skill Area III [I]
- SPAN 226 Intermediate Spanish IV 3
Prereq.: SPAN 225 or permission of instructor. Designed to help students improve writing skills by means of frequent composition. Further study of grammar. Open only to non-native speakers of Spanish. Spring. Skill Area III [I]

- SPAN 261 Business Spanish 3
Prereq.: SPAN 190 or 225, or permission of instructor. Development of skills geared to specific situations which would be encountered in business offices, foreign firms, travel agencies, and the like. Fall. Skill Area III [I]
- SPAN 290 Spanish for Spanish Speakers III 3
Prereq.: SPAN 191 or permission of instructor. Designed to review Spanish grammar and to improve writing, reading and diction skills. Discussion of cultural topics and further study of grammar. Fall. Skill Area III [I]
- SPAN 291 Spanish for Spanish Speakers IV 3
Prereq.: SPAN 290 or permission of instructor. Continuation of SPAN 290. Further work in Spanish grammar designed to improve writing, reading and diction skills. Emphasis on discussion of cultural topics. Spring. Skill Area III [I]
- SPAN 300 Literary Analysis 3
Prereq.: SPAN 226 or 291 (may be taken concurrently), or permission of instructor. Taught in Spanish. Instruction in the techniques of literary analysis as an instrument for the development of critical reading ability, and as a necessary step in literary research. Fall. [I]
- SPAN 304 Literary Masterpieces to 1700: Spain 3
Prereq.: SPAN 300 (may be taken concurrently); or permission of instructor. Taught in Spanish. Introduction to great literary works of Spain from the Middle Ages to 1700. Fall. Study Area I [I] [L]
- SPAN 305 Literary Masterpieces since 1700: Spain 3
Prereq.: SPAN 300 (may be taken concurrently). Taught in Spanish. Introduction to the major works in Spanish literature since 1700. Spring. Study Area I [I] [L]
- SPAN 315 Spanish Civilization 3
Prereq.: SPAN 226 or 291 (may be taken concurrently). Taught in Spanish. Cultural evolution of Spain with emphasis on modern period. Fall. Study Area II [I]
- SPAN 316 Latin American Civilization 3
Prereq.: SPAN 226 (may be taken concurrently or 291 may be taken concurrently). Taught in Spanish. Cultural evolution of Latin America with emphasis on modern period. Spring. Study Area II [I]
- SPAN 335 Advanced Spanish for Oral Expression 3
Prereq.: SPAN 226 or 291. Taught in Spanish. Development of oral proficiency through discussion of readings and films. Fall. [I]
- SPAN 336 Advanced Spanish Composition 3
Prereq.: SPAN 226 or 291. Taught in Spanish. Advanced practice in Spanish based on readings, translations, and frequent compositions. Spring. [I]
- SPAN 371 Poetry and Drama of the Golden Age 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. Outstanding poets and dramatists including Garcilaso de la Vega, Fray Luis de Leon, Lope de Vega, Tirso de Molina, and Calderon de la Barca. Spring. (E)
- SPAN 375 Spanish American Literature I 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. Study of selected writings of major Spanish-American authors from the age of discovery and the colonial period up to the end of the nineteenth century. Fall. Study Area I [I] [L]
- SPAN 376 Spanish American Literature II 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. Readings and interpretation of great works of Spanish American literature from end of Romanticism to present. Spring. Study Area I [I] [L]
- SPAN 441 Cross-Cultural Communication 3
Prereq.: Permission of instructor. Open only to non-native speakers of Spanish. Development of fluency in oral expression. Speech analysis and phonetic theory to improve pronunciation and intonation. Introduction to problems of translation, enhancement of oral competence, and development of cross-cultural understanding. Fall. (E) [I]
- SPAN 461 Topics in Spanish-American Literature 3
Prereq.: Permission of instructor. Taught in Spanish. Detailed study of a literary figure, movement, or theme. May be repeated with different topics for a maximum of six credits. Irregular. [I]

SPECIAL EDUCATION

- SPED 315 Introduction to Educating Learners with Exceptionalities 3
Prereq.: Admission to the Professional Program in Teacher Education. Examines growth and development of learners with exceptionalities, including gifted and talented and those who may require special education, and methods for 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 prevocational 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 exceptionalities. 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 498 Independent Study in Special Education 1 TO 3
Directed independent studies in special education. May be repeated for a total of 6 credits.

STATISTICS

STAT 104 Elementary Statistics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Intuitive treatment of some fundamental concepts involved in collecting, presenting, and analyzing data. Topics include frequency distributions, graphical presentations, measures of relative position, measures of variability, probability, probability distributions (binomial and normal), sampling theory, regression, and correlation. No credit given to students with credit for STAT 108, 200, 215, 314 or 315. Skill Area II

STAT 108 Introduction to Biostatistics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. Principles of statistics applied to the analysis of health and biological data. Emphasis on concepts and principles from biostatistics to facilitate critical reading of literature relevant to health data. The development of analytic skills is enhanced by the use of one of the widely available statistical packages and/or graphing calculator. Topics include graphical presentations, testing, estimation cross-classification, correlation, life tables, and survey analysis. No credit given to students with credit for STAT 104, 200, 215, 314, or 315. Skill Area II

STAT 200 Business Statistics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Application of statistical methods used for a description of analysis of business problems. The development of analytic skills is enhanced by use of one of the widely available statistical packages and a graphing calculator. Topics include frequency distributions, graphical presentations, measures of relative position, measures of central tendency and variability, probability distributions including binomial and normal, confidence intervals, and hypothesis testing. No credit given to students with credit for STAT 104, 108, 215, 314, or 315. Skill Area II [c]

STAT 201 Business Statistics II 3
Prereq.: STAT 200 or equivalent (C- or higher). Application of statistical methods used for a description and analysis of business problems. The development of analytical skills is enhanced by use of one of the widely available statistical packages. Topics include continuation of hypothesis testing, multiple regression and correlation analysis, residual analysis, variable selection techniques, analysis of variance and design of experiments, goodness of fit, and tests of independence. No credit given to students with credit for STAT 216, 416 or 453. [c]

STAT 215 Statistics for Behavioral Sciences I 3
Prereq.: MATH 101 (C- or higher) or placement exam. Introductory treatment of research statistics used in behavioral sciences. Quantitative descriptive statistics, including frequency distributions, measures of central tendency and variability, correlation, and regression. A treatment of probability distributions including binomial and normal. Introduction to the idea of hypothesis testing. No credit given to students with credit for STAT 104, 108, 200, 314 or 315. Skill Area II

STAT 216 Statistics for Behavioral Sciences II 3
Prereq.: STAT 215 or permission of instructor. Continuation of STAT 215. Survey of statistical tests and methods of research used in behavioral sciences, including parametric and nonparametric methods. No credit given to students with credit for STAT 201, 416 or 453. Spring. Skill Area II

STAT 314 Introductory Statistics for Secondary Teachers 3
Prereq.: MATH 218 and 221. Techniques in probability and statistics necessary for secondary school teaching. Topics include sampling, probability, probability distributions, simulation, statistical inference, and the design and execution of a statistical study. Computers and graphing calculators will be used. No credit given to those with credit for STAT 201, 216 or 453. Graphing calculator required. Fall. [c]

STAT 315 Mathematical Statistics I 3
Prereq.: MATH 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 321 Elementary Data Mining 3
Prereq.: STAT 104 or STAT 200 or STAT 215 or STAT 315. Introduction to basic concepts behind data mining. Survey of data mining applications, techniques and models. Discussion of ethics and privacy issues with respect to invasive use. Introduction to data mining software suite. Fall.

STAT 322 Data Mining Techniques 3
Prereq.: STAT 321; STAT 201 or STAT 216 or STAT 416 or STAT 453. Exploration of data mining methodologies. Topics include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models. More extensive use of data mining software. Spring.

STAT 323 Applications of Data Mining 3
Prereq.: STAT 322; MATH 152 (formerly MATH 122); MATH 218. Capstone course for Certificate in Data Mining. Case studies using large data sets taken from real-life applications. Discussion of problems encountered with large data sets. Extensive use of data mining software. Fall.

STAT 416 Mathematical Statistics II 3
Prereq.: STAT 315. Continuation of theory and applications of statistical inference. Elements of sampling, point and interval estimation of population parameters, tests of hypotheses, and the study of multivariate distributions. Spring.

STAT 425 Loss and Frequency Distributions and Credibility Theory 3
Prereq.: STAT 416 (may be taken concurrently). Topics chosen from credibility theory, loss distributions, simulation, and time series. Spring. (E)

STAT 453 Applied Statistical Inference 3
Prereq.: STAT 104. Statistical techniques used to make inferences in experiments in social, physical, and biological sciences, and in education and psychology. Topics included are populations and samples, tests of significance concerning means, variances and proportions, and analysis of variance. No credit given to students with credit for STAT 201 or 216. Fall.

STAT 455 Experimental Design 3
Prereq.: STAT 201 or 216 or 416. Introduction to experimental designs in statistics. Topics include completely randomized blocks, Latin square, and factorial experiments. Fall. (O)

STAT 456 Statistics Laboratory 3
Prereq.: CS 151 and STAT 201 or 216 or equivalent. Study of SAS, one of the major statistical analysis packages. Spring. (E) [c]

STAT 465 Nonparametric Statistics 3
Prereq.: STAT 201 or 216 or 416. General survey of nonparametric or distribution-free test procedures and estimation techniques. Topics include one-sample, paired-sample, two-sample, and k-sample problems as well as regression, correlation, and contingency tables. Comparisons with the standard parametric procedures will be made, and efficiency and applicability discussed. Fall. (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)

TECHNICAL COURSES

Note: Laboratory courses designed to develop technical competence; for majors in Technology Education, Industrial Technology and Engineering Technology, and, where indicated, to satisfy General Education requirements.

TC 405 Applied Technical Topics 1 TO 3
A laboratory-oriented course providing comprehensive study of a selected technological topic. Course may be repeated for maximum of 6 credits for different topics, but students may not take the course under the same topic more than once. Irregular.

TECHNOLOGY EDUCATION

TE 110 Technological Systems 3
A holistic perspective of technological systems and their impacts on social institutions. Focus on human endeavors in the development, use and control of technology. Fall. Study Area II

TE 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. [c]

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. [c]

TE 199 Orientation to Technology Education 1
Orientation to teaching technology education. Develops a sense of professional behavior, purpose and identity. Introduces planning of technical lessons, teaching technology education, and laboratory safety procedures. Spring.

TE 213 Electrical Energy 3
A study the electrical nature of matter, its conduction and magnetic properties. Focus on the behavior of electricity as a phenomenon.

TE 214 Mechanical Energy 3
A study of laws and concepts involved in the conversion, transmission, and control of mechanical energy. Experiences will include the analysis of common mechanical and fluid-mechanical circuits.

TE 215 Materials Processing 3
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. Fall. [c]

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. Spring. [c]

TE 245 Building Design & Construction 3
Prereq.: TE 115 and MFG 121. Formerly TE 445. 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. Fall. [c]

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. Formerly TE 410. 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.

TE 330 Transportation Design 3
Prereq.: CET 223, ET 241, and TE 215 and 221. Formerly TE 430. 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.

TE 399 Teaching Technology & Engineering Education Teaching 3
Prereq.: TE 299 and junior standing. 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. Includes preparation for student teaching assignments. 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 411 Animation Graphics 3
Prereq.: GRT 112 or MFG 121 or MFG 122. Using animation software, digitizing equipment, and paint/draw programs to produce two- and three- dimensional presentations, slide shows, and videotapes. Irregular. [c]

TE 412 Computer-Aided Publishing 3
Prereq.: CET 113; for graduate students, admission to M.S. program in technology education. Presentation and application of the basic concepts of electronic publishing. Instruction and laboratory activities will focus on software usage, applying accepted design techniques, and producing appropriate materials for classroom implementation. Irregular. [c]

TE 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. [c]

TE 420 Manufacturing Systems 3
Prereq.: MFG 118 and TE 215; for graduate students, admission to M.S. program in technology education. Laboratory application of the systems and technical means used to manufacture and construct products. Students will create designs, prototypes, tooling, transport devices, advertising strategies, line production techniques, and quality control mechanisms. Lecture/lab. Fall.

TE 428 Research and Experimentation 3
Prereq.: Completion of 18 hours of CET, EMEC, MFG, GRT, or TE courses; for graduate students, permission of department chair. Planning, directing, and evaluating effective research procedures with emphasis on the application of research and experimentation to the teaching of technology education and its relationship to mathematics, science, and social studies.

TE 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. [c]

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 2
Prereq.: TH 111 and 121. Studio course covering the various media for drawing and rendering stage and costume designs. The emphasis will be in developing student skills in drawing and rendering with watercolor, gouache, pen and ink. Irregular.
- TH 212 Stage Mechanics 3
Prereq.: TH 111 or prior permission of instructor. Study of multi-scene productions, including change-time factors and quick-change systems, as well as unit sets and machinery of the theatre. Spring. (O)
- TH 213 Scene Painting I 2
Laboratory/studio course in the techniques of painting scenery for the stage. Meets two hours twice each week. Irregular.
- TH 214 Scene Painting II 2
Continuation of TH 213. Meets for two hours twice each week. Irregular.
- TH 217 Sceno-Graphic Techniques 1
Prereq.: TH 111. Laboratory/studio course in various methods of graphic presentations of stage sets and designs, including measurements and specifications. Meets one hour each week. Spring. (E)
- TH 222 History of Fashion 3
Study of the history of dress stressing the influences of culture upon fashion and original period research for the theatre. Spring. (E) Study Area I [I]
- TH 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 1
Prereq.: TH 111 and 253 or permission of instructor. Study of function, duties, and methods of operation of the stage manager, to include a study of the Actor's Equity Association contract.
- TH 253 Script Analysis for the Theatre 3
Reading and analysis of plays from various periods and countries. Focuses on text analysis from viewpoint of theatre artists: director, actor, designer. Fall. 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, multi-culturalism, 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 2
Prereq.: TH 126 or prior permission of instructor. Advanced makeup projects with attention to mask building and prosthesis. Crew assignments on theatre productions are normally required. One two-hour session per week. 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 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. [I]
- TH 447 Acting IV 3
Prereq.: TH 347 and departmental permission. Performance considerations in scene study and role development, with emphasis on plays of varying styles and different periods. 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 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 486 Project: Lighting/Sound/Stage Management 1 TO 3
Prereq.: TH 318 and departmental permission. Individual projects in reading, research, or production under guidance of member of Theatre staff.
- TH 487 Projects: Research 1 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 performing, culminating in a public performance. May be repeated for a maximum of 6 credits. Summer.
- 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 410 Tourism & Hospitality Operations 3
Prereq.: GEOG 290 and MKT 308. 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. Fall.
- THS 490 Current Topics in Tourism & Hospitality 3
Prereq.: GEOG 290 and MKT 308. Analysis and evaluation of current topics and issues that confront the tourism/hospitality industry. Course may include on-site facility visits and guest lectures from industry professionals. May be repeated for up to 6 credits. Spring.

URBAN STUDIES

- URS 300 Introduction to Urban Studies 3
Interdisciplinary introduction to America's cities. Provides perspectives on urban issues and problems with an emphasis on Greater Hartford as a laboratory. Course serves as a foundation for the Urban Studies minor. Fall. Study Area III
- URS 420 Internship in Urban Studies 3
Prereq.: URS 300, nine additional credits in Urban Studies minor, permission of supervising department chair and a 3.0 GPA. Practical experience working with agencies active in dealing with the issues and problems of urban communities. On demand.
- URS 430 Readings in Urban Studies 3
Prereq.: URS 300, nine additional credits in Urban Studies minor, permission of supervising department chair and a 3.0 GPA. Directed independent study in Urban Studies. On demand.

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
Prereq.: VTE 113. Students develop sample planning units and present prepared lessons unique to vocational technical education that include theory, demonstration, and teaching strategies. Development of portfolios based on the BEST program will be integrated into the course. Fall, Spring, Summer.
- VTE 328 Shop Organization and Management 3
Physical aspects of vocational schools and shops. Purchase and inventory of supplies, surplus of equipment, selection and installation of equipment, and development of desirable shop layouts. The basic philosophies and practices of exploratory work offered and the specialized training which follows. Laboratory safety, public relations, use of instructional aids, and development of programs for special groups. Fall.
- VTE 400 Evaluating Student Achievement in Vocational-Technical Education 3
Prereq.: VTE 113. Procedures for evaluating student achievement of instructional objectives with application in vocational subjects that is reflective of BEST Portfolios. Spring.
- VTE 415 Principles of Vocational Education 3
An introduction to the principles and philosophy of vocational education and its impact on society. A brief historical development of vocational education, supportive legislation, characteristics of the various program fields, delivery systems, and current issues and problems.

- VTE 421 Occupational Specialization 25
Award of academic credit for occupational experience. Candidates must demonstrate technical knowledge and manipulative skills by passing a written and performance examination. Open to any vocational-technical instructor enrolled in the baccalaureate program. On demand.
- VTE 432 Classroom Management in Vocational-Technical Education 3
Essential components of effective classroom/shop management in VTE; procedures, routines, management of time and space, bonding and connecting with students, influences that affect student behavior, and creating an effective discipline plan. Course cannot be used to meet the requirements in a CCSU teacher certification program. On demand.
- VTE 440 Human Relations in the Workplace 3
A study of human relations with emphasis on self-awareness, role multiplicity, and the effect of life stresses on the adult in the workplace. Attitudes, values, problem-solving, and communication techniques are explored in the context of effective interpersonal relationships. Concepts of group dynamics and adult learning are addressed with emphasis on recognition and skill development. Fall.
- VTE 450 Principles and Organizations of Cooperative Work Education 3
The development and organization of work experience programs at the secondary school level. Examines those activities necessary to establish, maintain, and improve cooperative work education programs. Fall.
- VTE 455 Labor Market Trends and Student Job Readiness 3
Analysis of factors influencing the work placement of cooperative work education students. Special attention given to the study of present needs as well as anticipated trends in Connecticut's labor market, and the development of a curriculum to establish job readiness skills. Spring.
- VTE 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'S STUDIES

- WS 200 Introduction to Women's Studies 3
Focus on issues concerning women. Examines gender issues in societies, political institutions, education, the arts, medicine, science, and the family. Spring. Study Area III
- WS 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.
- WS 335 Women, Marriage, and Family in Early Modern Europe 3
Impact of social, economic, and ideological changes on gender roles and family structure in European society during the Renaissance, Reformation, and post-Reformation periods. 1400-1700. Spring. [I]
- WS 350 Men and Women in Different Cultures 3
Cross-cultural historical overview of gender differences. Consideration of gender biases in social science research. Students will examine relations between men and women in different societies to better understand such relations in their own lives. Spring.
- WS 400 Feminist Theory 3
Prereq.: WS 200 or permission of instructor. Examination of central theoretical and critical concepts, ideas and traditions in the development of feminist theory. Spring.

- WS 430 Internship in Women's Studies 3
Prereq.: WS 200 or permission of instructor. Students will be placed with an 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 student's needs.
- WS 435 Images of Gender in the Media 3
Examines media constructions and representations of femininity and masculinity. Focus on popular forms of media including television, film, and advertising. Spring.
- WS 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.
- WS 469 Readings in Women's Studies 1 TO 3
Prereq.: WS 200 or permission of instructor. Advanced study and projects in Women's Studies of special interest to students under the supervision of one or more affiliated Women's Studies faculty members.

WORD PROCESSING

- WP 204 Introduction to Word Processing 1
Introduction to a popular word processing software package. Includes document creation, editing, formatting, printing, archiving, and some specialized software features. Irregular. [c]

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS

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*

ANTHONY V. MILANO, B.S., University of Bridgeport; *Visiting Distinguished Professor of Public Policy, William A. O'Neill Endowed Chair in Public Policy and Practical Politics* (2004).

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:

MECZYSLAW B. BISKUPSKI, Ph.D., Yale University; *holder of the Stanislaus A. Blejwas Endowed Chair in Polish and Polish American Studies and Professor of History* (2002).

WILLIAM A. O'NEILL, *Honorary Professor of Political Science and holder of the William A. O'Neill Endowed Chair in Public Policy and Practical Politics* (2000).

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS:

ELIZABETH N. AARONSOHN, Ed.D., University of Massachusetts; *Associate Professor of Teacher Education* (1991).

HELEN R. ABADIANO, Ph.D., Ohio State University; *Professor of Reading and Language Arts* (1992).

FATEMEH ABDOLLAHZADEH, Ph.D., Loughborough University; *Professor of Computer Science* (1989).

FAROUGH ABED, Ed. D., Indiana University; *Professor of Educational Leadership* (1993).

STEPHEN ADAIR, Ph.D., Northeastern University; *Assistant to the Dean of Arts and Sciences and Associate 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).

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MIKE ALEWITZ, M.F.A., Massachusetts College of Art; *Associate Professor of Art* (2000).

TAROME ALFORD, M.A., Southern Illinois University; *Director of Residence Life* (2005).

JEAN ALICANDRO, M.S., Central Connecticut State University; *Interim Associate Director of Student Activities/Leadership Development* (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).

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MARIA ALVAREZ, M.A., Central Connecticut State University; *Associate Registrar for Scheduling and CAPP* (1983).

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JAMES V. ARENA, Ph.D., University of Connecticut; *Professor of Chemistry* (1989).

EDWARD ARGAST, Ed.M., Rutgers University; *Assistant Football Coach, Intercollegiate Athletics* (2004).

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MATTHEW ATHERTON, Ph.D., The Pennsylvania State University; *Assistant Professor of Criminology and Criminal Justice* (2005).

LOUIS E. AULD, Ph.D., Bryn Mawr College; *Professor of Modern Languages* (1987).

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- GEORGE F. CLAFFEY, Ed.D., Indiana University; *Professor of Management Information Systems* (1979).
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- JACQUELINE COBBINA-BOIVIN, M.S., Central Connecticut State University; *Coordinator of Women's Programs, Ruthe Boyea Women's Center* (2000).
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- RALPH S. COHEN, Ph.D., University of Missouri-St. Louis; *Professor of Counseling and Family Therapy* (1993).
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- JAMES M. CONWAY, Ph.D., University of Connecticut; *Associate Professor of Psychology* (1998).
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- STEPHEN COURTNEY, J.D., University of Connecticut School of Law; *Employment and Labor Specialist, Human Resources* (2004).
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- TIMOTHY CRAINE, Ph.D., Wayne State University; *Professor of Mathematical Sciences* (1993).
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- ROBERT CROUSE, Ph.D., University of Rhode Island; *Professor of Mathematical Sciences* (1987).
- GUY CRUNDWELL, Ph.D., Purdue University; *Associate Professor of Chemistry* (1998).
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- KATHY CZYRNIK, Ph.D., University of Connecticut; *Associate Professor of Finance* (1998).
- DANIEL D'ADDIO, D.M.A., University of Michigan; *Associate Professor of Music* (1996).
- MICHAEL D'ARCY, B.A., Methodist College; *Women's Soccer Head Coach, Intercollegiate Athletics* (2000).
- RONALD R. DAIGLE, Ph.D., Clark University; *Professor of Economics* (1976).
- REGINA KLONIS DARDZIENSKI, M.S., Central Connecticut State University; *Assistant Director of Media Services, Graphic Design* (1981).
- TENNYSON T. DARKO, M.B.A., Old Dominion University; *Technical Support Specialist, Information Technology Services* (1988).
- MICHAEL A. DAVIS, Ph.D., Harvard University; *Associate Professor of Biomolecular Sciences* (1998).
- SUSAN DAVIS, *Professional Development Specialist, 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); *Assistant Professor of Communication* (2003).
- JAMES A. DeLAURA, Ed.D., University of Northern Colorado; *Professor of Technology Education* (1976).
- PATRICIA DELOY, M.S., Central Connecticut State University; *Director, Career Services and Cooperative Education* (1984).
- THOMAS DELVENTHAL, M.F.A., University of Pittsburgh; *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; *Assistant Director of Intercollegiate Athletics, Facilities* (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).
- TUAN DANG DO, M.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services* (1998).
- TIFFANY DOAN, Ph.D., University of Texas-Arlington; *Assistant Professor of Biology* (2004).
- ERIC DOBLER, B.A., Eastern 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).
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Doctor of Health and Physical Education

David C. Campo '73, Head Coach, Dallas Cowboys Football ClubMay 22, 1999

Doctor of Humane Letters

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Ernest L. Boyer, President of the Carnegie Foundation

for the Advancement of Learning.....October 5, 1987

Gerald R. Ford, President of the United StatesMarch 23, 1988

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Educational, Scientific and Cultural OrganizationMay 24, 1991

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Helmut Schmidt, Chancellor of the Federal Republic of GermanyApril 28, 1993

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Special Representative for Public Affairs of the United Nations.....May 27, 1993

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Bruno Ficili, Commissioner of Education, Siracusa, ItalyOctober 23, 1996

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Flight Officer Connie Nappier, Jr., Lieutenant Colonel Bertram W. Wilson,

Connecticut Tuskegee AirmenMay 26, 2001

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Noam Chomsky, Professor of Linguistics, Massachusetts Institute of TechnologyNovember 4, 2003

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J. William Burnș, 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
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Professor Dr. Rainer Dieterich, Universität der Bundeswehr, Hamburg.....	May 25, 2002

Doctor of Social Science

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A	
Academic	
Conduct Workshop	43
Dismissal Hearing	35
Fields of Study (chart)	51
Good Standing Policy	35
Grading System	35
Information, Falsification or Misuse of	42
Misconduct	41, 42, 43
Programs	45
Progress	26
Regulations	35
Satisfactory Academic Progress Policy	26
Standards and Regulations	35
Student Organizations	32
Typical Program	35
Warning	35
Academic Center for Student Athletes.....	11
Acceptance of Non-Traditional Credit	39
Accounting	
Courses	111
Program	72
Accreditation	7
Acting Program	67
Actuarial Science	
Courses	112
Specialization	62
Adding a Course	37
Address, Change of	44
Administrative Officers	inside front cover, 2
Administrative Staff	179
Admissions	15
Advanced Placement	15, 39
Advising	15
Business Major	71
Continuing Education	19
First-Year Student	15
Fresh Start Policy	17
International Student	16
Medical Exam	17
National Guard	17
Part-time Matriculants	19
Persons 62 or Older	23
Professional Education Program (See Education and Professional Studies, School of)	
Re-Entry	17
Reservists	17
School of Business	71
School of Education and Professional Studies	78
Special Students	15
Teacher Preparation Professional Program	78
Transfer Students	16
Undergraduate	15
Veterans	17
Advanced Placement	15, 39
Advising	8
Admissions	15
Part-time Matriculants	19
School of Business	71
Advising Center	11
Affirmative Action Policy	8
African, African-American and Asian Philosophy Specialization ..	64
African-American Studies	
Course	112
Program	101
African Studies Programs	105
Africana Studies, Center for	12
Air Force	
Aerospace Studies Courses	109
ROTC	108
All-Level Subjects	87
Alumni Association	8
American Studies	
Courses	112
Programs	101
Anthropology	
Courses	112
Programs	53
Appeals	
Grade Changes	38
Procedures	27
Process, School of Education	81
Application	
For Graduation	36
For International Undergraduate Admission	16
Process, Financial Aid	25
Archaeology Minor	53
Area Studies (See International and Area Studies Programs)	
Armed Forces, Credit for	17
Army ROTC	108
Art	
Courses (See also Fine Arts Courses)	114
Programs	53
Art Education Major	54
Arts and Sciences, School of	53
Centers	68
Astronomy Minor	65
Athletic Training	82
Major	83
Athletics (See Sports and Recreation)	
Attendance	43
Attending Other Institutions	40
Audit Option	37
Automated Teller Machine	11
Aviation Ground School Courses	109
B	
Baccalaureate Degree, Graduation Honors for	36
Bachelor's Degree Programs, Requirements for	45
Banking, Specialization in	73
Behavior, Improper	41
Biochemistry	
Major	56, 90
Program	101
Biological Anthropology Minor	53
Biology	
Complementary Subject Matter Area	55
Courses	116

- Programs54
 Specialization in.....67
 Biomolecular Sciences
 Courses118
 Pathway/Degree Program97
 Programs89
 Biotechnology
 Certificate in90
 Institute8
 Specialization89
 Blue Chip Accounts (See Campus Debit Card Accounts)
 Board of Trusteesinside front cover
 Book Advances, Financial Aid23
 Bookstore31
 Breakers Game Room11
 Broadcast Journalism Emphasis.....56
 Business Center, U.S./China14
 Business Development, Institute of Technology and13
 Business Education
 Courses120
 Program73
 Business Program, International73
 Business, School of71
 Graduate Programs in72
 Minors for Business Majors in Subjects
 Other Than Business76
 Minors in Business for Non-Business Majors76
 Residence Requirements36
 Student Organizations76
C
 Calendar, University200, 201
 Campus
 Debit Card (Blue Chip) Accounts22
 Directions to204
 Mapinside back cover
 Mediation Services.....11
 Ministry8
 Security Report.....31
 Cancellation
 of Classes or Final Examinations Due to
 Inclement Weather31
 of Courses44
 of Registration27
 Career Development Seminar99
 Career Services11
 Caribbean and Latin American Studies, Center for12
 Caribbean Studies Minor106
 CCSU Foundation Scholarships27
 CEEB Code15
 Center for Africana Studies12
 Center for Caribbean and Latin American Studies12
 Center for East Asian Studies8
 Center for Innovation in Teaching and Technology88
 Center for International Education, George R. Muirhead13
 Center for Multicultural Research and Education88
 Center for Public Policy and Social Research12
 Center for Teaching Excellence and Leadership Development9
 CENTix11
 CENTRAL Payment Plan (CPP)22
 Central Reservations Office (CRO)11
 Central-UConn Exchange Program108
 Certificate of Residence22
 Certification
 Procedures, Connecticut81
 School of Education and Professional Studies77
 Teacher (See Teacher Certification Programs)
 Change of
 Address44
 Major or Degree Objective40
 Status41
 Checks, Returned22
 Chemistry
 Courses120
 Programs55
 Chen Art Center, Samuel S.T.9
 Childcare31
 Chinese Courses121
 Civil Engineering Technology
 Courses.....134
 Major93
 Classes, Cancellation of31
 Classification, Academic35
 Clinical Experience84
 College Level Examination Program (CLEP)16
 College of Technology97
 Commencement Ceremonies, Permission to Participate36
 Common Business Core72
 Communication
 Courses122
 Programs56
 Community-Technical College
 Transfer Minors68
 Transfers with Associate Degrees16
 Complementary Subject Matter Area
 Biology55
 Earth Sciences65
 English/Linguistics60
 English/Writing60
 Geography60
 Composition Specialization, Theory and63
 Computation, Minor in Language and60
 Computer Electronics and Graphics Technology Programs90
 Computer Electronics Technology Courses123
 Computer Engineering Technology Major91
 Computer Science
 Courses124
 Programs57
 Computer Usage in Courses47
 Confirmation Deposit21
 Connecticut Certification Procedures81
 Connecticut Community Technical College Transfers
 with Associate Degrees.....16
 Connecticut State University Systeminside front cover
 Construction Management
 Courses126
 Major.....94
 Continental Philosophy Specialization64
 Continuing Education19
 Refund Policy21

- Cooperative Education11
 Cooperative Education Program99
 Cooperative Programs108
 School of Arts and Sciences68
 School of Technology97
 Copernican Planetarium and Observatory68
 Copernicus Science Computing Laboratory9
 Counseling and Family Therapy.....81
 Counseling and Wellness Center12
 Counseling Course126
 Courses111
 Adding37
 Audit Option37
 Availability47
 Cancellation of44
 Computer Usage47
 Credits, Part-time Students.....19
 Descriptions111
 Dropping37
 Eligibility for Extra37
 General Education47
 Graduate37
 International47
 Load, Part-time Students19
 Non-Credit38
 Numbering47
 Pass-Fail Option37
 Qualified High School Students16
 Remedial40
 Repeat Policy38, 81
 Study and Skill Areas47
 Substitution40
 Withdrawal from37
 CPP (See CENTRAL Payment Plan)
 Creative Writing Minor60
 Credit
 Evaluation, Transfer16
 for Life or Work Experience40
 for Non-Collegiate Training Programs39
 for Standardized Examinations39
 Non-Traditional39
 Part-time Students19
 Successful Completion of26
 Crime and Justice, Institute for the Study of9
 Criminal Justice (See Criminology and Criminal Justice)
 Criminology and Criminal Justice
 Courses127
 Programs58
 Cross-Cultural Analysis Minor53
 Cultural Opportunities9
 Cultural Student Organizations32
- D**
 Dance
 Courses128
 Program68
 Data Mining, Certificate in62
 Dean's List36
 Declaration of Major40
 Degree Objective, Change of Major or40
 Degree Policy, Second36
 Degree Requirements45
 Descriptive Linguistics Minor60
 Design and Technical Theatre Program67
 Design (Graphic/Information)
 Courses128
 Program58
 Directing Program68
 Directions to CCSU204
 Disabilities, Students with (See Special Students)
 Dismissal Hearing35
 Disqualification.....27
 Dropping a Course37
- E**
 Early Alert Program12
 Early Childhood Education
 Courses131
 Program86
 Earth Sciences
 Courses129
 Programs64, 65
 Specialization65, 67
 East Asian Studies
 Center for8
 Programs105
 East European Studies (See Slavic/East European
 Studies Programs)
 Ecology, Biodiversity and Evolutionary Biology Specialization54
 Economics
 Courses130
 Programs59
 Education
 Courses131
 Early Childhood Courses131
 Elementary Courses131
 General (See General Education)
 Programs Leading to Teacher Certification78
 Programs Without Teacher Certification77
 Restricted Professional Course Work78
 Retention Criteria78
 Secondary Courses131
 Teacher Education Courses132
 Education and Professional Studies, School of77
 Appeals Process81
 Centers88
 Repeat Policy81
 Educational Foundations Courses133
 Educational Leadership81
 Educational Technology Courses133
 Educational Theatre Program68
 Electro-Mechanical Technology
 Courses133
 Specialization95
 Electronics Technology Major91
 Elementary Education
 Courses131
 Program86

- Eligibility Requirements for
 Basic Financial Aid25
 Cooperative Education Program99
 Extra Courses37
 Extra-Curricular Activity43
 Graduate Courses37
 Elihu Burritt Library9
 Emeriti Faculty185
 Employment26
 Engineering Technology
 Courses133, 134
 Programs92
 Engineering Technology Pathway/Degree Program97
 Engineering Transfer Program68
 English
 As a Second Language Courses138
 Courses135
 ENG 099 and MATH 09938
 Programs59
 Enrollment Center19
 Entrepreneurship
 Courses138
 Specialization75
 Environmental and Occupational Safety Specialization95
 Environmental Geography Programs60
 Environmental Interpretation Specialization55, 66
 Environmental Science Specialization55
 Escorts32
 Ethics Specialization, Theoretical and Practical64
 European Union/West European Studies Programs105
 Examinations41
 Credit for Standardized39
 Excess Credit Fees37
 Exercise Science and Health Promotion Program82, 83
 Expenses21
 Cooperative Education Program99
 Extra Courses, Eligibility for37
 Extra-Curricular Activity, Eligibility for43
- F**
 Faculty179
 Emeriti185
 Federal Work Study Program26
 Fees
 Excess Credit37
 Late22
 Meal Plan21
 Non-Refundable22
 Payment of21
 Refunds Under Unusual Circumstances22
 Schedule21
 Field Experiences and Student Teaching87
 Fields of Study, Undergraduate (chart)51
 Final Examinations, Cancellation of31
 Finance
 Courses139
 Program73
 Financial Aid25
 Book Advances23
 Fine Arts Courses139
- First-Year
 Experience46
 Student Admissions15
 Foreign Currency Payments22
 Foreign Language Proficiency46
 Foundation Scholarships, CCSU27
 Fraternities32
 French
 Courses139
 Programs62, 63
 Fresh Start Policy17
 Full-time Students
 Dean's List36
 Refund Policy21
- G**
 General Accounting Track73
 General Biology Program54
 General Education45, 47
 General Education Program46, 47
 Courses Under the Study and Skill Areas47
 For Business Majors72
 General Information7
 General Management
 Core74
 Specialization74
 General/Regional Geography Program60
 General Science Major66
 Biology Specialization55, 67
 Earth Sciences Specialization65, 67
 Environmental Interpretation Specialization55, 66
 General Science Specialization66
 Minor67
 Physical Sciences Specialization66
 Geographic Information Science Programs60
 Geography
 Courses140
 Programs60
 Geology Minor65
 George R. Muirhead Center for International Education13
 German
 Courses142
 Programs62, 63
 Gerontology Minor66
 Good Standing Policy35
 Government, Student32
 Governmental Student Organizations32
 Grade Changes Policy, Appeals for38
 Grade-Point Average35
 Grading System35
 Graduate
 Courses37
 Programs in Business72
 School (See School of Graduate Studies)
 Graduation
 Application for36
 Honors36
 Rates44
 Standards36
 Grants and Scholarships25

- Graphics Technology
 Courses.....143
 Specialization91
- H**
 Hartford Consortium for Higher Education108
 Health and Human Service Professions Courses143
 Health Insurance33
 Health Promotion (See Exercise Science)
 Health Service (See University Health Service)
 High School Students, Courses for16
 History
 Courses143
 Programs61
 History of Philosophy Specialization64
 Honor Requirements36
 Honorary Degree Recipients189
 Honors
 Courses146
 Graduation36
 Program107
 Scholarships27
 Student Organizations32
 Hospitality and Tourism Studies Program102
 Hospitality Institute, Tourism and14
 Housing (See Residence)
 Fee21
 Human Growth and Development Program66
 Human Resource Management Specialization74
 Humanities Courses146
- I**
 Identification Cards31
 Improper Behavior41
 Industrial Technology
 Courses146
 Major91, 95
 Specialization Programs95
 Information, Student31
 Information Technology Services9
 Innovation in Teaching and Technology, Center for88
 Institute for Municipal and Regional Policy13
 Institute for Science Education68
 Institute for the Study of Crime and Justice9
 Institute of Technology and Business Development13
 Insurance, Health33
 Integrated Science and Mathematics Courses147
 Intensive English Language Program107
 Courses147
 Intercollegiate Athletics10
 Interdisciplinary
 Course148
 Programs101
 Interdisciplinary Sciences Course148
 International and Area Studies Programs105
 International Business
 Courses148
 Program73
 International Courses47
 International Education, George R. Muirhead Center for13
 International Requirement46
 International Student
 Admissions16
 Organizations32
 International Studies
 Courses148
 Major63, 105
 Internet and Multimedia Studies
 Courses149
 Program103
 Intramural Sports10
 Investments Specialization.....73
 Italian
 Courses149
 Programs62, 63
- J**
 Japanese Courses150
 Jazz Studies Specialization63
 Journalism
 Emphasis, Broadcast56
 Minor59
 Judicial Programs13
- L**
 Language and Computation Minor.....60
 Language Arts (See Reading and Language Arts)
 Language Learning Center (See Multi-Media Language Learning Center)
 Language Placement Examination63
 Language Student Organizations32
 Late Fee22
 Latin American Studies
 Center for Caribbean and12
 Courses150
 Programs105
 Latin Courses150
 Law Courses150
 Leadership Development (See Student Activities/ Leadership Development)
 Learning Center, The9
 Leave of Absence Policy.....40
 Librarians179
 Library9
 Library Science Course150
 Life or Work Experience, Credit for40
 Linguistics
 Complementary Subject Matter Area in English/60
 Courses.....150
 Minor in Descriptive60
 Literacy Center88
 Literature Requirement for Study Area I47
 Loans25
 Lockers11
 Logic and Philosophy of Science Specialization64
 Lounges11

- M**
- Major
 - Change of40
 - Declaration of40
 - Second Undergraduate36, 37
 - Management and Organization Programs74
 - Management Courses151
 - Management Information Systems
 - Courses152
 - Program75
 - Management Specialization
 - General74
 - Human Resource74
 - Managerial Accounting Track73
 - Managerial Communication Course152
 - Manufacturing and Construction Management Programs94
 - Manufacturing Engineering Technology Major93
 - Manufacturing (Industrial Technology) Specialization95
 - Manufacturing Technology Courses153
 - Map, Campusinside back cover
 - Marketing
 - Courses153
 - Program75
 - Mathematical Sciences Programs61
 - Mathematics
 - Courses147, 154
 - MATH 099, ENG 099 and38
 - Mathematics Placement Examination40
 - Mathematics Tutoring Center10
 - Meals21
 - Mechanical Engineering Technology Major93
 - Mechanical/Manufacturing Engineering Technology Courses134
 - Media Center10
 - Media Student Organizations32
 - Media Studies Emphasis56
 - Mediation Services, Campus11
 - Medical Exam17
 - Medical Excuse Policy33
 - Memberships7
 - Meteorology Minor65
 - Microcomputer Lab9
 - Middle Eastern Studies Programs106
 - Military Science Courses109
 - Ministry, Campus8
 - Minors for Business Majors in Subjects
 - Other Than Business76
 - Minors in Business for Non-Business Majors76
 - Misconduct, Academic41
 - Mission7
 - Modern Languages (See also Chinese, French, German, Italian, Japanese, Latin, Spanish)
 - Courses156
 - Programs62
 - Multicultural Research and Education, Center for88
 - Multi-Media Language Learning Center10
 - Municipal and Regional Policy, Institute for13
 - Music
 - Courses157
 - Programs63
 - Music Education Major63
- N**
- National Guard17, 23
 - Networking Technology
 - Minor92
 - Specialization92
 - New England Regional Student Program23
 - Non-Business Majors, Minors in Business for76
 - Non-Collegiate Training Programs, Credit for39
 - Non-Credit Courses38
 - Non-Refundable Fees22
 - Non-Traditional Credit, Acceptance of39
 - Notification of Financial Aid Awards25
 - Nursing
 - Courses159
 - Program82
- O**
- Obligations, Unpaid22
 - Observatory68
 - Occupational Safety Specialization, Environmental and95
 - Off-Campus Students Rent22
 - Official Certificate Programs45, 62, 90
 - Ombudsman, University14
 - OnlineCSU108
 - Operations Research Specialization59
 - Organizational Communication Emphasis56
 - Organizations, Student32, 76
 - Out-of-State Certification Procedures81
- P**
- Parking31
 - Part-time Matriculant Program19
 - Part-time Students
 - Advisement19
 - Dean's List36
 - Pass-Fail Option37
 - Payment
 - Foreign Currency22
 - Plan, CENTRAL22
 - Tuition and Fees21
 - Peace Studies
 - Courses159
 - Program103
 - Performance
 - Minor (Theatre)68
 - Specialization (Music)63
 - Performing Student Organizations33
 - Permission for Photos of Students31
 - Persons 62 and Older23
 - Pet Policy31
 - Philosophy
 - Courses160
 - Programs64
 - Philosophy of Religion and Religious Studies Specialization64
 - Photos of Students, Permission for31
 - Physical Education and Human Performance
 - Courses (Also see Recreation)161
 - Programs82
 - Physical Sciences Specialization66
 - Physics and Earth Sciences Programs64

- Physics Courses163
- Placement
 Examination, Mathematics40
 Testing40
- Plagiarism.....42
- Planetarium (See Copernican Planetarium)
- Planning Specialization (Geography)60
- Police32
- Policy on Academic Misconduct41
- Polish Courses165
- Polish Heritage Book Collection68
- Polish Studies Center68
- Political Science
 Courses165
 Programs65
- Post-Baccalaureate "Programs of Study"80
- Practicing Anthropology Minor53
- Pre-Collegiate and Access Services.....13
- Pre-Communication Majors57
- Pre-Health/Pre-Medical Program108
- Pre-Law Program107
- Pre-Professional Programs107
- Prerequisites37
- Primary Subject Matter Area
 English59
 History61
 Mathematics62
- Probation27
- Probationary Letter27
- Professional Education Program (See Education and Professional Studies, School of)
- Professional Program for Teacher Certification77
- Professional Student Organizations32
- Promotion/Public Relations Emphasis56
- Psychology
 Courses166
 Programs66
- Public Access to Student Records44
- Public Accounting Track73
- Public Administration Specialization65
- Public Affairs, UConn/CCSU Joint Program in69
- Public Policy and Social Research, Center for12
- Public Relations Emphasis, Promotion/56
- Public Safety.....31
- Publications, Student32
- Q**
- Quantitative Reasoning Course168
- R**
- Reading and Language Arts85
- Reading Courses168
- Records, Public Access to Student44
- Recreation10
 Courses168
 Student Organizations33
- Re-entry Admissions17
- Refund Policy21
 Under Unusual Circumstances22
- Regional Policy, Institute for Municipal and
- Registration37
 Summer and Winter Session19
- Regulations, Academic35, 43
- Reinstatement27
- Religion and Religious Studies Specialization, Philosophy of64
- Religious Student Organizations33
- Religious Studies
 Courses169
 Program103
- Remedial Courses40
- Rent, Off-Campus Students22
- Repeating Courses38, 81
- Requirements
 Bachelor's Degree Programs45
 Dean's List36
 Foreign Language Proficiency46
 Graduation Honors36
 International46
 Writing46
- Reserve Officers Training Corps (ROTC)108
- Reservists17, 23
- Residence
 Application for32
 Certificate of22
 Expenses21
 Payment, Refund Policy21
 Requirements for Degree36
- Residence Life32
- Resources8
 Financial Aid25
- Restricted Professional Course Work78
- Retention Criteria78
- Returned Checks22
- Risk Management/Insurance Specialization73
- Room and Meals21
- ROTC (See Reserve Officers Training Corps)
- Russian Studies Major106
- Ruthe Boyea Women's Center11
- S**
- Safety, Public31
- Satisfactory Academic Progress Policy26
- Scholarships25, 27
- Scholastic Assessment Test I15
- School of Arts and Sciences (See Arts and Sciences, School of)
- School of Business (See Business, School of)
- School of Education and Professional Studies (See Education and Professional Studies, School of)
- School of Graduate Studies19
- School of Technology (See Technology, School of)
- Science
 Minor67
 Minor, General67
- Science and Science Education Programs66
- Science Education Courses169
- Science Education, Institute for68
- Second Degree Policy36
- Second Undergraduate Major36

- Secondary Education
 Courses131
 Program87
 Services11
 Sign Language Courses170
 Skill Areas46, 48
 Slavic/East European Studies Programs106
 Social Research, Center for Public Policy and12
 Social Sciences
 Courses170
 Major61, 67
 Program67
 Social Work
 Courses170
 Program85
 Sociology
 Courses171
 Programs67
 Sororities32
 Spanish
 Courses172
 Programs63
 Special Education85
 Courses173
 Special Interest Student Organizations32
 Special Programs107
 Special Student
 Admissions15
 Services14
 Special Studies Major107
 Sports and Recreation10
 Student Organizations33
 Standardized Examinations, Credit for39
 Standards, Academic35
 S.T.A.R. Employees11
 State University Student Interchange40
 Statistics
 Courses174
 Minor62
 Specialization62
 Status, Change of41
 Student
 Athletes, Academic Center for11
 Center10
 Government32
 Information31
 Organizations32, 76
 Publications32
 Records, Public Access to44
 Teaching87
 Student Activities/Leadership Development10
 Study Abroad Programs109
 Study Areas46, 47
 Subject Matter Majors78
 Substitution, Course40
 Summer Session19
 Suspension27
- T**
 Teacher Certification Programs77, 78
 Teacher Education
 Courses132
 Programs86
 Teacher Preparation Professional Program
 Admission to78
 Revocation of Admission to80
 Teaching English to Speakers of Other Languages (See TESOL)
 Teaching Excellence and Leadership Development, Center for9
 Technical Courses175
 Technical Theatre Program, Design and67
 Technology and Business Development, Institute of13
 Technology, College of97
 Technology Education
 Courses175
 Programs96
 Technology Management Specialization96
 Technology Pathway/Degree Program98
 Technology Pathway Program98
 Technology, School of89
 Termination27
 TESOL Minor60
 The Learning Center (TLC)9
 Theatre
 Courses176
 Facilities9
 Programs67
 Theoretical and Practical Ethics Specialization64
 Theory and Composition Specialization (Music)63
 Title II Reporting77
 Title IX10
 Tourism and Hospitality Institute14
 Tourism and Hospitality Studies Courses177
 Tourism (Geography) Programs60, 61
 Transcript Policy43
 Transfer Credit Evaluation16
 Transfer Students
 Admissions16
 School of Business71
 Tuition
 Payment21
 Refunds Under Unusual Circumstances22
 Typical Program (Academic)35
- U**
 UConn/CCSU Joint Program in Public Affairs69
 Undergraduate
 Admission15
 Fields of Study (chart)51
 University7
 Calendar200, 201
 Campus Mapinside back cover
 Directions204
 Health Service33
 History7
 Mission7
 Offices2
 Ombudsman14
 Withdrawal from41

INDEX

Unpaid Obligations	22
Urban Studies	
Courses	177
Program	103
U.S./China Business Center	14
V	
Veterans	
Admissions	17
Affairs	14
Educational Assistance	23
Vocational-Technical Education Courses	97, 177
Voter Registration	33
W	
Warning, Academic	35
Weather Center	68
Wellness Center, Counseling and	12
Winter Session	19
Withdrawal from	
Courses.....	27, 37
University	41
Women's Center	11
Women's Studies	
Courses	178
Program	103
Word Processing Course	178
Work Experience, Credit for Life or	40
Work Study Program, Federal	26
Writing	
Complementary Subject Matter Area in English/	60
For Teachers, Minor in	59
Minor	59, 60
Writing Center	11
Writing Requirement	46

UNIVERSITY CALENDAR 2005–2006

Fall Semester 2005

August 22	Academic year begins
August 29	Classes begin 8 a.m.
August 29	Last day for full-time students to withdraw with 100% refund
September 5	Labor Day Holiday—No classes
Aug. 29–Sept. 6	Add/Drop Period
September 6	Last day to change from part-time to full-time status; last day for part-time students to withdraw with 100% refund
September 7–19	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
September 12	Last day for full-time students to withdraw with 60% refund
September 15	Final day for graduate students to apply for December 2005 graduation (Graduate Studies)
September 19	Last day to change from full-time to part-time status
September 20	Last day to declare Pass/Fail or Audit options; last day for part-time students to withdraw with 50% refund
September 20–October 24	Withdrawal from courses permitted. "W" will be entered. No permission to go below full-time status required
September 26	Last day to withdraw from first eight-week courses; last day for full-time students to withdraw with 40% refund
October 24	Midterms. Last day to withdraw full-semester courses; first eight-week courses end
October 25	Second eight-week courses begin
November 22	Last day to withdraw from second eight-week courses
November 22	Last day for full-time students to withdraw from the University
November 23–26	Thanksgiving Recess—No classes
November 28	Thanksgiving Recess ends 8 a.m.
December 1	Final day for undergraduates to apply for December 2006 graduation (Registrar's Office)
December 8	Day classes end
December 9	Reading Day (No classes; make-up day if needed)
December 12–17	Final Exams
December 17	Semester ends; final day of Saturday classes
December 17	Graduate Commencement

Winter Session 2006

December 27	Winter Session classes begin
December 31	No classes
January 2	New Year's Day Observed—No classes
January 13	Winter Session classes end

Spring Semester 2006

January 16	Martin Luther King Day Holiday—No classes
January 17	Academic semester begins
January 23	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund
January 23–30	Add/Drop period

January 30	Last day for part-time students to withdraw with 100% refund; last day to change from part-time to full-time status
January 31–February 13	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
February 6	Last day for full-time students to withdraw with 60% refund
February 10	Last day to change from full-time to part-time status
February 13	Last day to declare Pass/Fail and Audit options; last day for part-time students to withdraw with 50% refund
February 14–March 27	Withdrawal from courses permitted. "W" will be entered. No permission to go below full-time status required
February 17–20	President's Holiday Break—No classes
February 21	Last day to withdraw from first eight-week courses
February 21	Last day for full-time students to withdraw with 40% refund
March 1	Final day for graduate students to apply for May/August 2006 graduation (Graduate Studies)
March 18	First eight-week courses end
March 20–25	Spring Recess—No classes
March 27	Spring Recess ends 8 am; Midterm. Second eight-week courses begin; last day to withdraw from full-semester courses
April 14	Good Friday (A Day of Reflection)
April 17	Final submission of Thesis to Graduate Studies
April 24	Last day to withdraw from second eight-week courses; final day for full-time students to withdraw from the University
April 28	Final day for undergraduates to apply for May 2007 graduation (Registrar's Office)
May 10	Day classes end
May 11 & 12	Reading Days (No classes; make-up day if needed)
May 15–20	Final Exams
May 20	Semester ends; final day of Saturday classes
May 20	Undergraduate Commencement
May 25	Graduate Commencement

Summer Session 2006

May 30	First five-week session begins; eight-week session begins
June 29	First five-week session ends
July 3	Second five-week session begins
July 4	Independence Day—No classes
July 20	Eight-week session ends
August 3	Second five-week session ends
August 7	Three-week post session begins
August 24	Three-week post session ends

UNIVERSITY CALENDAR 2006–2007

Fall Semester 2006

August 28	Academic year begins
September 4	Labor Day Holiday—No classes
September 5	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund
September 5–11	Add/Drop Period
September 11	Last day to change from part-time to full-time status; last day for part-time students to withdraw with 100% refund
September 12–25	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
September 15	Final day for graduate students to apply for December 2006 graduation (Graduate Studies)
September 18	Last day for full-time students to withdraw with 60% refund; last day to drop first eight-week courses
September 25	Last day to change from full-time to part-time status; last day to declare Pass/Fail or Audit options; last day for part-time students to withdraw with 50% refund
September 19–October 2	Withdrawal from first eight-week courses without approval. "W" will be entered.
September 26–October 30	Withdrawal from courses without approval. "W" will be entered. No permission to go below full-time status required
October 2	Last day for full-time students to withdraw with 40% refund
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 13	Last day to drop second eight-week courses
November 21	Last day for full-time students to withdraw from the University
November 22–26	Thanksgiving Recess—No classes
November 27	Classes resume 8 a.m.
November 30	Last day to withdraw from second eight-week courses without approval. "W" will be entered.
December 1	Final day for undergraduates to apply for December 2007 graduation (Registrar's Office)
December 14	Day classes end
December 15	Reading Day (No classes; make-up day if needed)
December 16–22	Final Exams
December 16	Graduate Commencement
December 22	Semester ends

Winter Session 2007

December 26	Winter Session classes begin
January 1	New Year's Day—No classes
January 11	Winter Session classes end

Spring Semester 2007

January 12	Academic semester begins
January 15	Martin Luther King Day Holiday—No classes

January 19	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund
January 19–25	Add/Drop Period
January 25	Last day to change from part-time to full-time status; Last day for part-time students to withdraw with 100% refund
January 26–February 8	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
February 1	Last day for full-time students to withdraw with 60% refund; last day to drop first eight-week courses
February 8	Last day to change from full-time to part-time status; last day to declare Pass/Fail and Audit options; last day for part-time students to withdraw with 50% refund
February 9–March 15	Withdrawal from courses without approval. "W" will be entered. No permission to go below full-time status required
February 15	Last day to withdraw from first eight-week courses without approval. "W" will be entered; last day for full-time students to withdraw with 40% refund
February 16–19	Presidents' Holiday Break—No classes
March 1	Final day for graduate students to apply for May/August 2007 graduation (Graduate Studies)
March 15	Midterm; last day to withdraw from full-semester courses without approval. "W" will be entered; first eight-week courses end
March 19–25	Spring Recess—No classes
March 26	Classes resume 8 a.m.; second eight-week courses begin
April 6	Good Friday (A Day of Reflection)
April 9	Last day to drop second eight-week courses
April 17	Final submission of Thesis to Graduate Studies
April 20	Last day for full-time students to withdraw from the University
April 23	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 2008 graduation (Registrar's Office)
May 8	Day classes end
May 9–11	Reading Days (No classes; make-up day if needed)
May 14–19	Final Exams
May 19	Semester ends; final day of Saturday classes
May 19	Undergraduate Commencement
May 24	Graduate Commencement

Summer Session 2007

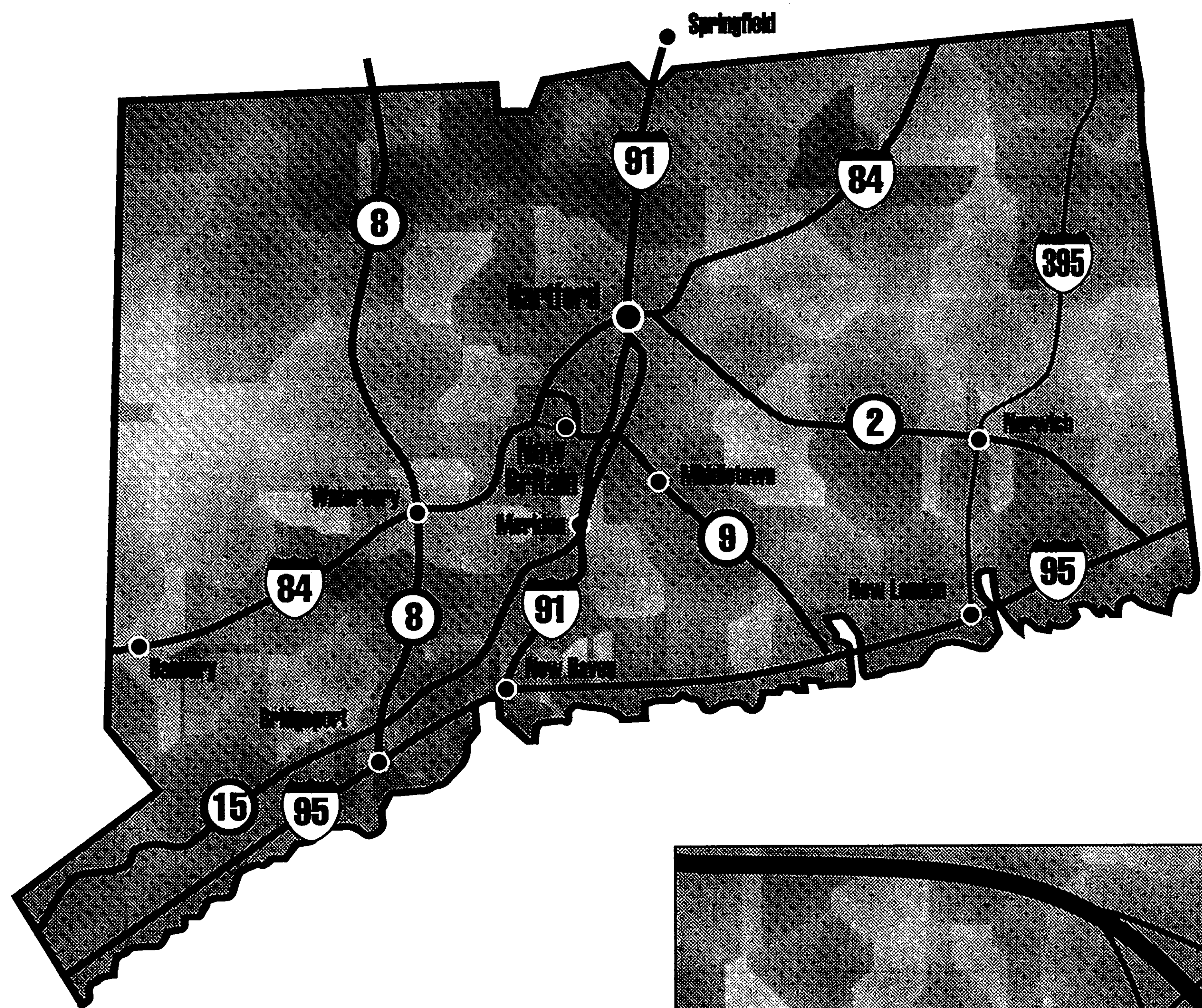
May 29	First five-week session begins; eight-week session begins
June 28	First five-week session ends
July 2	Second five-week session begins
July 4	Independence Day—No classes
July 19	Eight-week session ends
August 2	Second five-week session ends
August 6	Three-week post session begins
August 24	Three-week 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

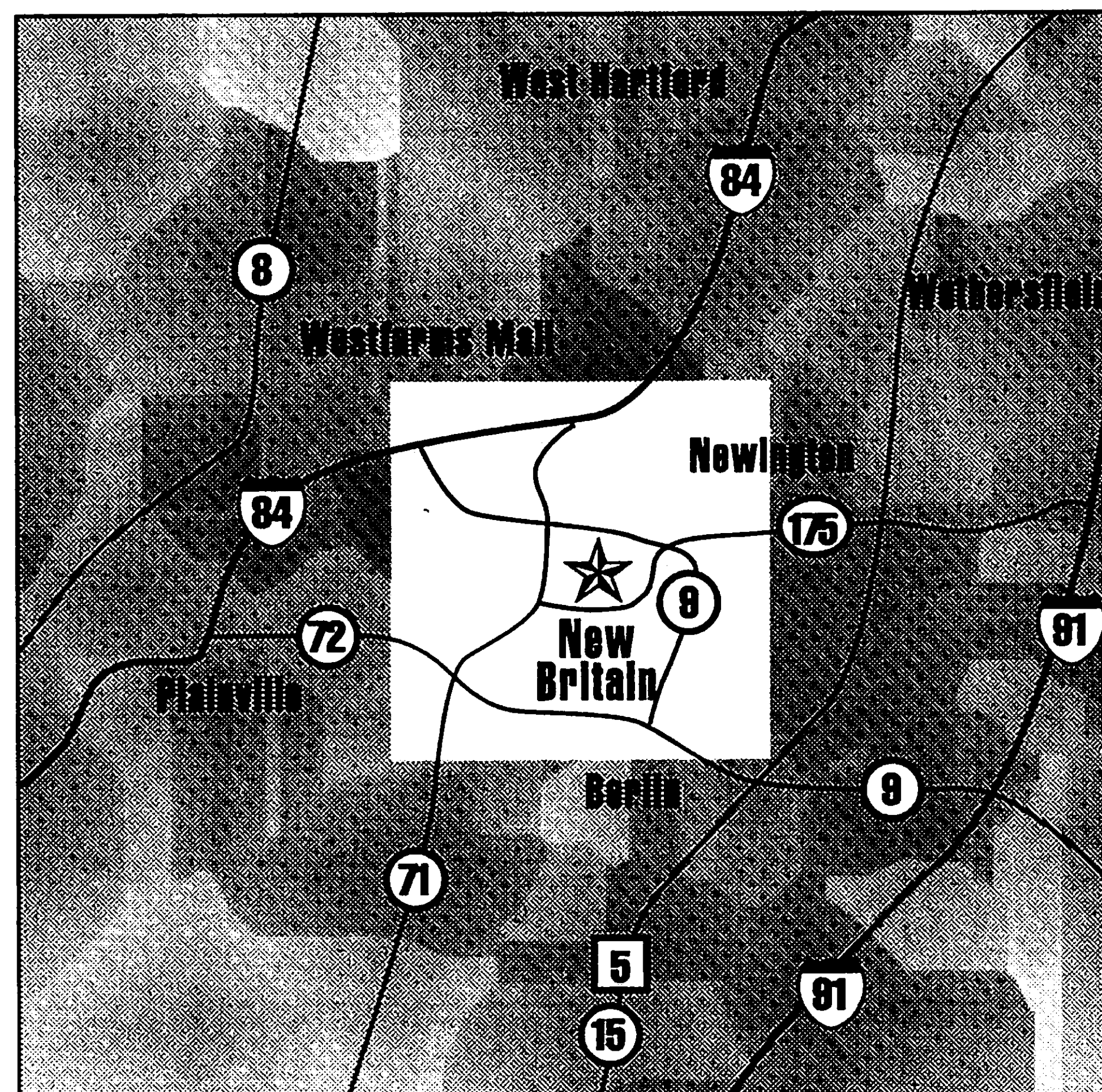
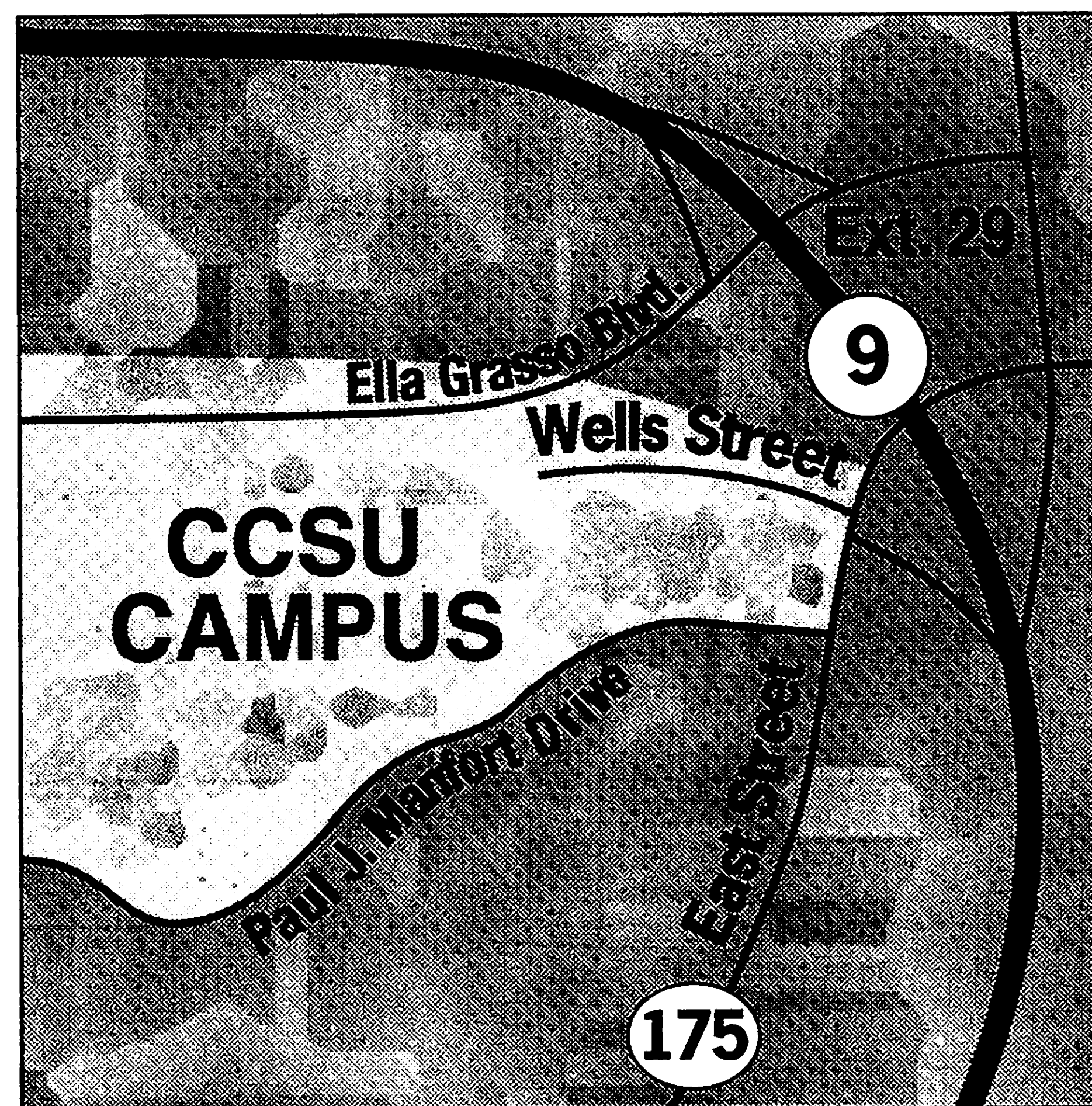
Take I-95 South to Rte. 9 North to Exit 29, Cedar Street (Rte. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.

FROM THE EAST

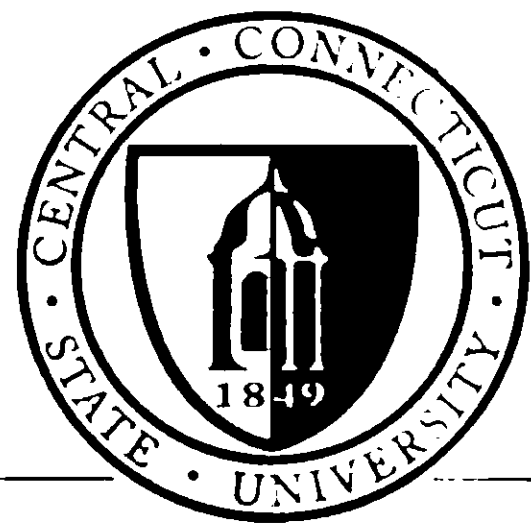
Take I-84 West to Exit 39A to Rte. 9 South. Take Exit 29 off of Rte. 9 to Ella Grasso Boulevard and take a right turn to the University. *Alternate Route:* Take I-84 West to Exit 40, (Corbins Corner). As you proceed down the Exit 40 ramp, bear left at the first traffic light. At the next traffic light (facing Sears), turn right onto Route 71 South. The University is approximately three (3) miles away.

FROM THE WEST

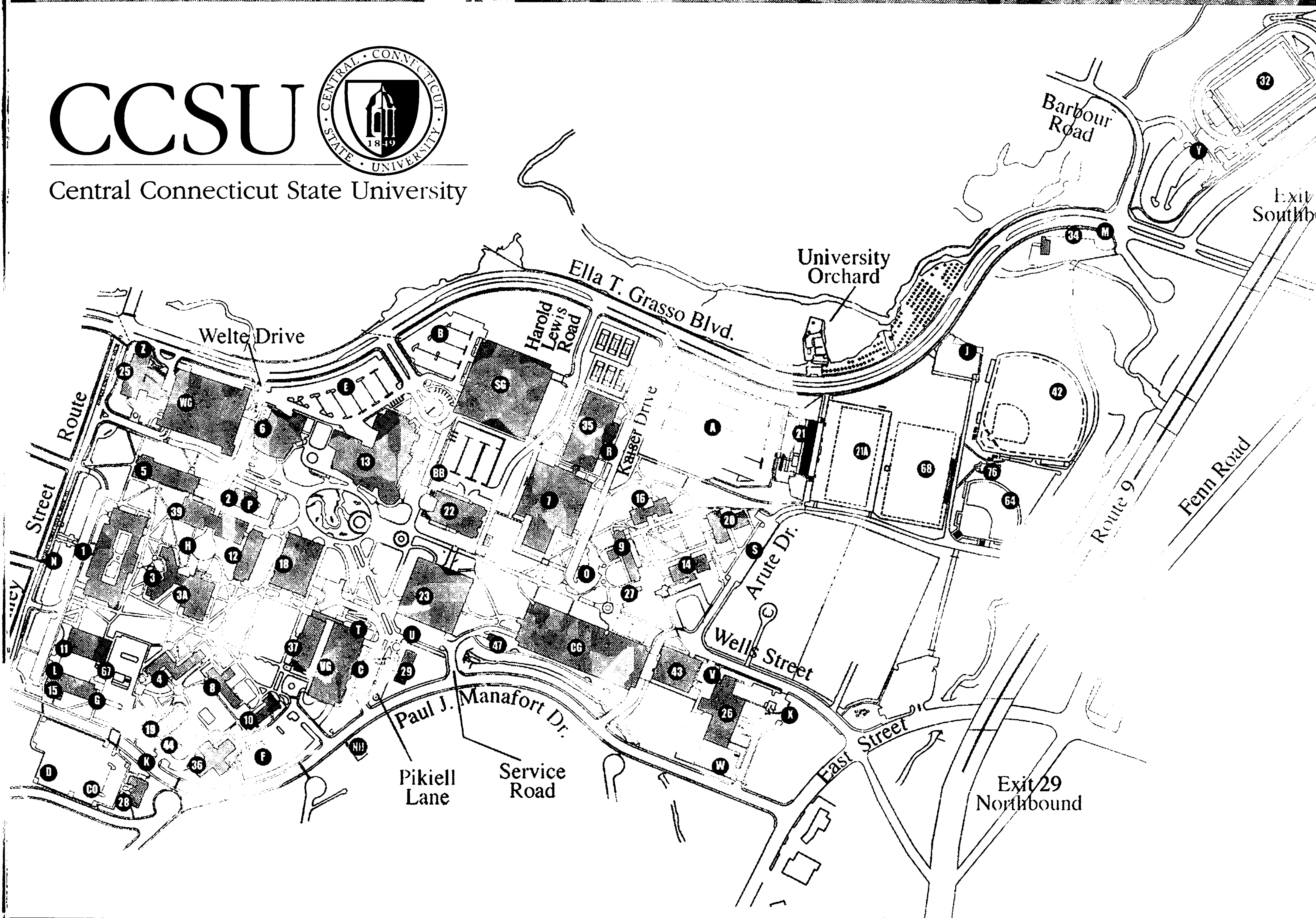
Take I-84 East to Exit 39A, to Rte. 9 South. Take Exit 29 off of Rte. 9 South to Ella Grasso Boulevard and take a right turn to the University. *Alternate Route:* Take I-84 East to Exit 35, Rte. 72 East (New Britain exit). Follow Rte. 72 East to Rte. 9 North and take Exit 29 to Cedar Street (Rte. 175). 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
- 2. Power House (Facilities Management)
- 3. Marcus White Hall
- 3A. Marcus White Annex
- 4. Clarence Carroll Hall
- 5. Henry Barnard Hall
- 6. Herbert D. Welte Hall
- 7. Harrison J. Kaiser Hall
- 8. Catherine Beecher Residence Hall
- 9. Samuel J. May Residence Hall
- 10. Seth North Residence Hall
- 11. Emma Hart Willard Hall
- 12. Maria Sanford Hall
- 13. Student Center
- 14. Robert E. Sheridan Residence Hall
- 15. Frank J. DiLoreto Hall
- 16. Thomas H. Gallaudet Residence Hall
- 18. Memorial Hall
- 19. Mildred Barrows Residence Hall
- 20. Robert Vance Residence Hall
- 21. Arute Stadium/Press Box
- 21A. Arute Field
- 22. Elihu Burritt Library
- 23. Nicolaus Copernicus Hall

- 25. James J. Maloney Hall
- 26. East Hall (Facilities Management)
- 27. North Pump House (Facilities Management)
- 28. Charter Oak State College
- 29. Public Safety Building (Police Department)
- 32. Athletic Field (future site)
- 34. Grounds Building (Facilities Management)
- 35. Kaiser Hall Annex
- 36. F. Don James Residence Hall
- 37. Robert C. Vance Academic Center
- 38. Early Learning Center
- 39. Academic Building (future site)
- 42. Balf-Savin Field/Bottalico Baseball Pressbox
- 43. Energy Center (Facilities Management)
- 44. South Pump House (Facilities Management)
- 47. East Pump House (Facilities Management)
- 64. Softball Field/Pressbox

- 67. ATM Kiosk
- 68. Soccer Field
- 69. Maintenance Facility
- 76. Hitchcock-Young Pavillion
- NH Newman House

PARKING KEY

- A Kaiser Hall Lot
- B Student Center Lot
- BB Library Lot
- C Pikiell Lot
- CG Copernicus Garage
- CO Charter Oak State College Reserved Lot
- D Manafort Drive Lot
- E Welte Hall Lot
- F Barrows/James Hall Lot
- G Willard/DiLoreto Lot
- H Marcus White Service Drive
- J Balf-Savin Field Lot
- K James Hall Circle
- L Willard Hall Reserved Lot
- M Maintenance Grounds Lot
- N Davidson Hall Reserved Lot
- O May Hall Lot

- P Power House Lot
- R Kaiser Annex Lot
- S Vance Residence Hall Reserved Lot
- SG Student Center Garage
- T Memorial Hall Lot
- U Copernicus Hall Lot
- V East Hall Upper Lot
- VG Vance Garage
- W East Hall Lower Lot
- WG Welte Garage
- X Receiving (Gas Pump) Lot
- Y Barbour Road Lot (future site)
- Z Fine Arts Center Lot

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