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

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

**Programs**

**MAJOR IN ANTHROPOLOGY, BA**

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

**MINOR IN ANTHROPOLOGY**

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

**MINOR IN ARCHAEOLOGY**

24 credits, including ANTH 150, 215, 324, 450 and 12 credits from ANTH 210, 230, 322, 323, 329, 416, 418, and 420. For students majoring in anthropology, six credits of this minor may be applied to the major.

**MINOR IN BIOLOGICAL ANTHROPOLOGY**

18 credits including ANTH 160, 245, 265, 335, and 365, and three credits of minor-related electives. For students majoring in anthropology, three credits of this minor may be applied to the major.

**MINOR IN CROSS-CULTURAL ANALYSIS**

18 credits including ANTH 170, 200, 340. Two courses from ANTH 352, 422, 424, 426, 428 or 475 (if devoted to a specific world area). One additional course approved by an advisor. For students also majoring in anthropology, three credits of this minor may be applied to the major.

**MINOR IN PRACTICING ANTHROPOLOGY**

18 credits, including ANTH 170, 200, 270, 374, 401, and 437. For students majoring in anthropology, three credits of this minor may be applied to the major.
programs, and our BS in art education alumni are prominent art education leaders throughout the state. The department houses the Samuel S. T. Chen Fine Arts Center, a gallery exhibiting works by nationally and internationally recognized artists and providing a venue for student and faculty exhibits. The gallery also provides opportunities to study curatorship, leading to career possibilities in museum studies. Options abound for internships with business and industry, community-based organizations, museums, galleries, and schools.

Programs

MAJOR IN ART, BA
60 credits, as follows:

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

Individual Planned Program of Study (18 credits):
To be developed in conjunction with departmental advisor and includes a minimum of 9 sequential credits in one area. Art majors must complete 15 credits in courses at the 300-level or above.

Directed Electives for a Minor in Art (18 credits):
Major-related electives, selected in consultation with advisor, or a minor in another department

Capstone (3 credits):
ART 499

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

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

BIOLOGY

Faculty

Department Overview
The Department of Biology has full-time faculty representing the major specializations within the broad field of biology. Copernicus Hall houses laboratories for introductory and advanced undergraduate and graduate courses and research in biology.

The department has a wide range of modern research equipment in laboratories designed for class and/or individual research studies. Specialized facilities, available for faculty and student instruction and research, include a greenhouse, herbarium, photosynthesis research laboratory, molecular genetics research laboratory, controlled environment room, computer laboratory, experimental gardens, and growth chambers.

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

Programs

MAJOR IN BIOLOGY, BS (Non-Teaching)
Core (14–16 credits): BIO 121, 122, 200, 290, and either BIO 390 or 391.

General Biology (32 total credits in Biology required)
Core, plus 16–18 credits of any other 200-level or higher BIO or BMS courses. Please note that upper-level BMS courses require BMS 201, which can count as an elective in the general biology major. Other electives may be approved at the discretion of the department chair. In addition 28–30 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213; and PHYS 121, 122 are also required.

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

Specialization in Ecology, Biodiversity, and Evolutionary Biology (32 total credits in biology required)
Core, plus 13–15 credits as follows: One of BIO 302, 405, 434, 440; 480; one of BIO 315, 322, 326, 327, 420, 421, 425, 444; any advanced courses in the E/B/E Group (see list below). In addition 28–30 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213; and PHYS 121, 122 are also required.

This specialization emphasizes ecological and evolutionary processes integrated with study of organismal diversity. Students will develop an understanding of the processes that influence relationships among organisms and interactions with their environments through selected courses and individual research projects. This program will prepare students for careers with government agencies (e.g., conservation, fisheries, and wildlife management, forestry), nongovernmental 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 resource management, or marine and aquatic biology.

**E/B/E Group**

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

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

**Specialization in Environmental Science**

(28–32 total credits in biology required)

Core, plus 14–16 credits as follows: Either BIO 436 or 438; one of BIO 315, 322, 326, 327, 420, 421, 425, 444, one of BIO 331, 410, 412/413, 449/450; either BIO 405 or 434. In addition 38–41 credits of related requirements, including MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 210, 211, 212, 213, 301, 406; either ESCI 121 or 450; and PHYS 121, 122 are also required.

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

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

37 credits in biology as follows: BIO 121, 122, 200, 290, 390; one of BIO 322, 420, 421, 481; one of BIO 326, 327, 425, 444; one of BIO 302, 315, BMS 306, 316; one of BIO 318, 319, 331, 410, 412/413, 449/450. At least one course in BIO or BMS must be at the 400-level. Please note that upper-level BMS courses require BMS 201, which can count as an elective in the Biology major. In addition MATH 124, or MATH 125 and 115; CHEM 161/162, 163/164, 250; PHYS 121, 122; and professional education courses EDTE 316, EDF 415, SPED 315, EDSC 425, 435, SCI 416, 417, 419, and RDG 440 are required.

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

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

**Portfolio Requirement**

All majors in the Department of Biology are required to complete a student portfolio. Minimally, the student portfolio must include a current resume, a current Student Graduation Evaluation (available from the Department of Biology) or transcript, a narrative describing the student’s goals for undergraduate education and graduate educational or career plans, and writing samples from one or more upper-level courses in the major. To fulfill the portfolio requirement in biology, the student portfolio must be reviewed with one or more faculty members in biology as a course requirement in BIO 200, as a required component of BIO 390, 391, 491, and all independent studies and internships, and prior to application for graduation, as evidenced by submission of a Portfolio Requirement Completed form (available from the Department of Biology and signed by the major advisor) to the biology chair.

**MINOR IN BIOLOGY** (Certifiable for secondary teaching)

20 credits in biology (for those with a major in chemistry, physics, or earth sciences) as follows. BIO 121, 122, 200, and 8 credits in BIO at the 300- or 400-level. In addition, SCI 416, 417, and 419; MATH 125 and CHEM 161 and 162 are required. Those with a major in any other discipline should consult with the department chair about the specific requirements for the minor.

**MAJOR IN GENERAL SCIENCE WITH SPECIALIZATION IN BIOLOGY, BS** (Certifiable for elementary education)

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

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

18 credits, as follows: BIO 121, 122, 200; 6 credits from BIO 100, 101, 120, 132/133, 150, 322, 326, 327, 421, and any 300- or 400-level biology course; at least 3 credits must be at the 300-level or higher. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

**MAJOR IN GENERAL SCIENCE WITH SPECIALIZATION IN ENVIRONMENTAL INTERPRETATION, BS**

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

**MINOR IN BIOLOGY** (Non-Teaching)

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

**MINOR IN GERONTOLOGY**

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

**CHEMISTRY AND BIOCHEMISTRY**

**Faculty**


**Department Overview**

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

The Department of Chemistry and Biochemistry provides undergraduate and graduate courses in the five major areas of chemistry (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry). The department offers the following BS degrees: Chemistry, certified by the American Chemical Society; an interdisciplinary degree in biochemistry (administered jointly with the Department of Biomolecular Sciences); and a degree in chemistry certifiable for secondary teaching. The department facilities are located in Copernicus Hall and include five instructional laboratories, three research laboratories, and two major instrument rooms. All research and many teaching laboratories are equipped with networked computers. Four large computer facilities are available for chemistry majors; all are equipped with state-of-the-art chemistry software packages, including chemical drawing and molecular modeling software.

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

Programs

MAJOR IN CHEMISTRY, BS
(Accredited by the American Chemical Society)
This program is designed for students wishing to go on to graduate-level studies in chemistry, or those who expect to enter professional chemistry at the bachelor's level.

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

MINOR IN CHEMISTRY
(Certifiable for secondary teaching)
This minor is designed for 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.

MINOR IN CHEMISTRY
(Non-Teaching)
21 credits in chemistry, including CHEM 161, 162, 163, 164, 210, 211, 212, 213, 301, and one chemistry elective selected from courses numbered 300 or above.

MINOR IN CHEMISTRY
(Certifiable for secondary teaching)
20 credits in chemistry if the student majors in biology, biomolecular sciences, physics, or earth science, including CHEM 161, 162, 163, 164, 210, 211, 212, 213, and 301. In addition, students must take PHYS 121, 122; BIO 121 or BMS 102 and 190; SCI 417 and MATH 121 (or 119). For other majors, a certifiable minor in chemistry requires 30 credits planned with the approval of the chair of the Department of Chemistry and Biochemistry.

COMMUNICATION

Faculty

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

Programs

MAJOR IN COMMUNICATION, BA
39 credits in the department and related courses, including 12 credits of departmental electives, 18 credits within an emphasis area (as noted below) and 9 credits of core requirements: COMM 140, 240, and 301 or 302. As part of their 39 credit major, students must take a total of 12 credits from 300/400-level courses, with a minimum of 9 credits from 400-level courses.
Courses are grouped according to certain emphases within the broad field of Communication, allowing the student the choice of an emphasis that is compatible with his or her aims and interests. These emphases are:

- broadcast journalism (for students interested in careers in radio, television, or film);
- media studies (for students who want to gain a better understanding of the systems and institutions distributing mediated information in society);
- promotion/public relations (for students who wish to develop communication skills for commercial, as well as non-commercial, employment in publicity, promotions, sales and corporate communication, and community services); and
- organizational communication (for students interested in pursuing consulting or in serving as managers for private and public institutions). In addition to these educational and occupational opportunities, a student might choose to pursue directions which could lead to an advanced degree in communication.

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

**Broadcast Journalism**
Required courses (12 credits): COMM 230, 305, 330, and 336 (or 338). Electives: 18 credits, of which at least 6 credits must be from a list of selected broadcast journalism courses.

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

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

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

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

The Department of Communication maintains a policy for admission to the major. To be admitted to the communication major, students must complete 30 credits (15 credits for transfer students with 45 or more credits transferred to CCSU) of General Education or courses in their minor and obtain a 2.00 GPA or better. An additional requirement is that the students must complete three required communication core courses at CCSU: COMM 140, COMM 240, and either COMM 301 or COMM 302. A minimum GPA of 2.50 must be achieved in these three courses, with no grade lower than a C- in any course. Students who have taken one or more of these courses at another institution should see the department chair for a substitute(s).

Students should not take any 300- or 400-level communication courses (except for COMM 301 and/or 302 and/or 303 and 330) until they have been admitted to the major.

Pre-communication students are allowed to take 200-level courses. Students who have been denied admission to the major may apply courses they have taken in the core to a minor in communication provided there is no grade lower than a C-. Alternatively, they may repeat courses in which they received a C- or lower in order to raise their GPA.

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

Curriculum Guide Sheets listing required and recommended courses for each emphasis are available in the department. A maximum of 6 credits in related courses from outside the department (also listed on Curriculum Guide Sheets) may be counted toward the major. The student may also request to use up to 6 credits of related coursework outside of the major that are not listed on the Curriculum Guide Sheets. In such cases, students should obtain permission from their advisor and department chair as well as complete a course substitution form. Furthermore, completion of a minor in a related field of study in another department at the University is required. Students should complete a Program Change form as soon as possible to declare their minor.

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

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

**COMPUTER SCIENCE**

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

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

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

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

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

Programs

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

64 credits. Core (18 credits): CS 151, 152, 153, 253, 254, 354. Advanced area courses (9 credits): CS 355 plus choice of two from CS 385, 463, 464. Advanced directed electives (9 credits): Choice of three from CS 410, 423, 460, 462, 463, 481, 483, and 490, selected in consultation with an advisor. Auxiliary electives (4 credits): Additional courses to total 4 credits selected from advanced directed electives above or from CS 290, 300, 301, 398, 407, 425, 491, 492, 495, 498, 499. Mathematics and statistics (15 credits): MATH 152, 221, 218, and STAT 315. Science (9 credits): PHYS 338 plus one of the following sequences: BIO 121 and 122 or CHEM 161, 162, 163, and 164 or ESCI 121 and 122, or PHYS 125 and 126. Majors must also take PHIL 245 and an additional 6 credits in science. No minor is required for this major.

Computer science honors program majors are not required to complete a minor. Students in this honors program are required to take a proficiency test specified by the department during their senior year.

MAJOR IN COMPUTER SCIENCE, BS (ALTERNATIVE) (Non-Teaching)

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

MINOR IN COMPUTER SCIENCE

18 credits as follows: CS 151, 152, 153, 253 and 6 credits of computer science electives which are applicable to the BS degree in computer science.

CRIMINOLOGY AND CRIMINAL JUSTICE

Faculty

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

Department Overview

The academic field of criminal justice is interdisciplinary and involves the study of the definition of crime, the causes and control of criminal behavior and the operation of the criminal justice system (i.e., police, courts and corrections). The study of criminal justice is both theoretical and practical in nature and emphasizes theory, policy, planning and evaluation. Through classroom and field experience students are prepared for responsible positions of service in law enforcement, the courts, corrections and youth service agencies.

Programs

MAJOR IN CRIMINOLOGY, BA

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

MINOR IN CRIMINAL JUSTICE

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

DESIGN (GRAPHIC/INFORMATION)

Faculty

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

Department Overview

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

The department provides an academic structure for the advancement of graphic and information design instruction and degrees at both the undergraduate and graduate level. The Department of Design (Graphic/Information) is separate from the Departments of Art and of Computer Electronics and Graphics Technology. The faculty and staff are comprised of members with academic background and professional experience in graphic design, fine art, advertising, illustration, information design, communications, marketing, computer science, 3-D imaging, website design, and interactive multimedia design. The Department maintains a state-of-the-art print center and laboratories. Upper-level students may be selected (by portfolio) for participation in the following:

• Design Internship experience with graphic design, advertising, publishing, website or multimedia design companies;

• Central Design, student operated full service graphic design studio; and

• International Design Student Exchange.

Graduates of the department are highly successful, working as designers and art directors with nationally known graphic design firms, advertising agencies, corporate design and communication departments, broadcasters, publishers, and website design houses, as well as multimedia and 3-D animation studios.

Program

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

Acceptance into the University and participation in the pre-graphic/information design program does not guarantee acceptance into the graphic/information design major. Acceptance into the GID major is competitive and is limited by the number of students who can be accommodated. Students seeking full admission to the BA in graphic information design degree program must meet the following qualifications:

• complete 9 credits at CCSU;
• overall GPA of 2.50 strongly recommended. Student must be in good academic standing; and
• a score of 85 or better on the comprehensive assessment administered in DES 122 Fundamentals of Graphic/Information Design. DES 122 may be repeated only with the permission of the department chair.

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

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

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

MAJOR IN GRAPHIC/INFORMATION DESIGN, BA
36 credits as follows: DES 222, 225, 322, 325, 326, 419, 425, 436, 438, 499; MKT 306; CS 495. Additionally, ART 110, 130, 36 credits as follows: DES 222, 225, 322, 325, 326, 425, 436, 438, 439, 465, 498, 499, 503, 504, 597, 598. Contact the department for additional information.

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

ENGLISH

Faculty

Programs
General Prerequisite: ENG 110 is a prerequisite for all other English courses, except ENG 999; ESL 108, 109.

MAJOR IN ECONOMICS, BA, WITH SPECIALIZATION IN OPERATIONS RESEARCH
57 credits of economics and related courses, including ECON 200, 201, 305, 460, 485, MATH 470, CS 151; and either ECON 300, 310, 311, MATH 125, 136 (signature of chair of Department of Mathematical Sciences required for admission), STAT 215, 216 (total 21 credits) or ECON 300, 310, 311, MATH 121, 152, 221, 222 and STAT 315, 416 (total 27 credits). The remaining 9 or 15 credits may be elected from economics courses acceptable for the BA economics major (ECON 470 strongly recommended), MATH 110, STAT 455, 456, CS 151, 254, 473; at least two of these courses must be labeled economics. A maximum of 3 credits may be waived from the requirements for this program upon completion of an appropriate cooperative work experience. No minor is required for students choosing this major.

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

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

LING 200 must be taken to fulfill Study Area III.

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

A minor is required for this major.

MAJOR IN ENGLISH, BS (Certifiable for elementary education)
39 credits as follows: ENG 205, 206, 210, 211, 411, 491, 492; LING 200, 300.
Composition Sequence (6 credits): either, Expository: ENG 202 and 401
Creative: two from ENG 371 or 372, 373 or 374, 376, 377
Journalism: ENG 235 and one of the following: 236, 380, 381, or 418.
Directed Electives (9 credits): ENG 270 or 274; 6 credits at the 300–400 level in British, American and/or world literature or ENG 220, selected in consultation with advisor.
SPED 315 is required for certification.

No minor is required for this major.

For Certification in Elementary Education, Primary Subject Matter Area in English:*  
24 credits, as follows: ENG 205, 206, 210, 211, 270 or 274, 491, LING 230; 3 elective credits at the 300/400 level in British, American or world literature or ENG 220, selected in consultation with an advisor. See department for details.

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

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

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

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

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

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

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

MINOR IN TESOL  
(For students completing elementary or secondary certificates) 21 credits as follows: LING 200, 230, 496, 497 and any 9 credits from LING 312, 313, 400, 430, 431; SOC 322; ANTH 170, 352.

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

Complementary Subject Matter Area in English/Linguistics:*  
18 credits, as follows: LING 200, 230, 300, 430 and 431; either an approved elective or a second topic under LING 430.

Complementary Subject Matter Area in English/Writing:*  
18 credits, as follows: ENG 202, 401 and 403; 9 credits in either journalism (ENG 235, 236, 380, 381, 382, 416 or 418) or in creative writing (ENG 371, 372, 373, 374, 376, 377 or 378).

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

GEOGRAPHY

Faculty  

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

Programs  
MAJOR IN GEOGRAPHY, BA OR BS  
39 credits in geography, as follows:

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

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

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

General/Regional: GEOG 110 or 120; GEOG 130; 15 credits of geography electives (at least 9 at the 400-level); 3 credits from GEOG 270, 272, 275, 374, 433, 472, 473; 3 credits from GEOG 220, 223, 244, 290,
Acceptable substitutes for GEOG 430 will be jointly determined by student and advisor. When approved in advance by the student’s advisor, up to 6 credits of cognate courses in one or two other disciplines may be applied toward the major in geography.

For certification in elementary education, students are advised to follow the general/regional program in the geography major. All elementary education students selecting geography as their single subject matter area will take GEOG 414, with this course counting as a geography elective. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Completion of a minor in another discipline is required, except for elementary education students. Certain minors are especially recommended by the department, depending on the career track chosen by the student. We also encourage participation in CCSU’s Cooperative Education program.

MAJOR IN GEOGRAPHY WITH A SPECIALIZATION IN PLANNING, BA
39 credits as follows: GEOG 110, 130, 241, 244, 420, 439, and 441; 12 credits from GEOG 433, 440, 445, 450, 473, or 483; 6 credits of geography electives. STAT 104 or 215 (Skill Area 2) is also required.

MINOR IN GEOGRAPHY WITH A SPECIALIZATION IN PLANNING
18 credits in geography as follows: GEOG 110, 241, 441; 6 credits from GEOG 272 and/or any geographic techniques course; 3 credits from any 400-level planning course.

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

MINOR IN GEOGRAPHIC INFORMATION SCIENCES
18 credits in geography as follows: GEOG 130, 378, and 12 credits (at least 6 at the 300- or 400-level) from GEOG 256, 266, 266, 466, 476, 478, 479, ETC 458. For geography majors, 3 additional credits of electives are required. Geography majors in the geographic information sciences track may not choose this minor.

MINOR IN GEOGRAPHY
18 credits in geography as follows: GEOG 110 or 120; and 15 credits of geography electives. At least 6 credit hours must be in courses at the 300- or 400-level.

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

MAJOR IN SOCIAL SCIENCE WITH MINOR IN GEOGRAPHY, BS
(Certifiable in social studies)
54 credits distributed as follows:
- 18 credits in history: HIST 121 and 122; 6 credits in 300-level U.S. surveys; HIST 301; and 3 elective credits in non-western history;
- 18 credits in geography, as specified by the requirements for the major in geography;
- 18 credits in social science, chosen from the following courses: PS 104 and/or 110; ECON 200 and 201; GEOG 110 and/or 120; ANTH 140; SOC 110.

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

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

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

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

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

For Certification in Elementary Education, Complementary Subject

Matter Area in Geography:
Complements primary subject matter area in English at the elementary level. 18 credits, as follows: GEOG 120, 220, 330; one of GEOG 272, 275, 374, or 433; and 6 credits in geography electives (at least 3 of which must be at 400 level). All education students selecting geography as a complementary subject matter area will also enroll in GEOG 414; Elementary-level (1–6) students will enroll for 3 credits and may use the course as one of the 2 geography electives. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

HISTORY

Faculty

Programs

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

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

Related requirements: ANTH 140 and GEOG 110 or 120.

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

No minor is required of students in this major.

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

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

For Certification in Elementary Education, Primary Subject Matter Area in History:
24 credits, as follows: HIST 121 and 122; HIST 301; 9 credits of 300-level U.S. history courses; 6 credits of non-U.S. history above the 100 level. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

MATHEMATICAL SCIENCES

Faculty

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

Programs
MAJOR IN MATHEMATICS, BA
38 credits in mathematics and related courses, including MATH 152, 218, 221, 222, 228, 366, 377, and 450. The remaining 6 credits may be selected from MATH 250, 300, 323, 355, 398, 421, 440, 455, 468, 469, 470, 477, 491; STAT 315, 416, 425, 455, 456, 465, 476; ACTL 335, 465, 466, 481, 482. In addition, two laboratory science courses are required.

Note: CS 151 is strongly recommended.

MAJOR IN MATHEMATICS WITH SPECIALIZATION IN ACTUARIAL SCIENCE, BA
58 credits in mathematics and related courses as follows.
Core (40 credits): MATH 152, 218, 221, 222, and 228; STAT 315, 416, and 425; ACTL 335, 465, and 466.
Electives (18 credits) as approved by advisor:
6–12 credits chosen from ACTL 480, 481, 482; MATH 300.
6–12 credits chosen from AC 211, 212; CS 151, 152, 213, 473; ECON 460; FIN 295, 320, 410, 420; LAW 250; MGT 295.

Note: ECON 200 and 201 are strongly recommended.

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

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

No minor is required for students choosing this major.

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

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

No minor is required for students with this major.

MAJOR IN MATHEMATICS, BS (Certifiable for elementary teaching)
33 credits as follows:

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


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

MINOR IN MATHEMATICS (For students completing secondary certificates) 19 credits in mathematics as follows: MATH 152, 218, 221, either MATH 228 or 366, and STAT 314.

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

MINOR IN MATHEMATICS (Non-Teaching) 20 credits in mathematics, as follows: MATH 152, 221, 222 and two courses selected from MATH 218, 226, 228, 250, 355, 366, 377.

MINOR IN STATISTICS 21 credits, including STAT 215, 216, CS 151; 3 courses chosen from MATH 110, 470, STAT 455, 456, 465, 476; one course chosen from the courses listed above or CS 473; BIO 405; ECON 460, 485; GEOG 476; PSY 222, 451.

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

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

MODERN LANGUAGES

Faculty

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

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

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

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

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

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

MAJOR IN SPANISH, BS (Certifiable for secondary teaching)
36 credits as follows: SPAN 125, 126, 225, 226 for non-native speakers or SPAN 190, 191, 290, and 291 for native speakers; SPAN 300, 304 or 305, 315, 316, 335, 336, 375 or 376; and 3 credits of directed electives. In addition, students must take EDTE 316, EDF 415, SPED 315, EDSC 425, EDSC 435, ML 428, ML 429, ML 440, ML 490 or LING 300, EDT 315, and RDG 440. For students with advanced preparation, appropriate substitutions will be made. No minor required.

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

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

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

In Japanese, students must take JAPN 125, 126, 225, 226; and 6 credits from JAPN 335, 336; HIST 354; GEOG 435.

Language Placement Examination
Every student must demonstrate proficiency in a foreign language equivalent to completion of one year of college-level study as part of General Education.
The Department of Modern Languages tests achievement levels in German and Italian by appointment. Testing for Spanish or French proficiency is done, by appointment, in The Learning Center, located in Copernicus. Students with skills in languages other than those listed above should arrange with the Department of Modern Languages for verification of their level of proficiency. These examinations serve both for exemption and placement. All students, including native speakers, with two years or less of previous foreign language study must take the exams.

Students with three or more years of successful secondary language study in one language are automatically exempt from further required coursework; they should take the exam if they expect to continue study in that language.

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

**MUSIC**

**Faculty**

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

**Department Overview**

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

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

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

**Programs**

**MAJOR IN MUSIC, BA**

60 credits as follows:

Core (25 credits):


Specialization (35 credits): either

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

**MAJOR IN MUSIC EDUCATION, BS**

(Certifiable for PK–12 teaching)

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

Also required are 30 credits in professional education, including MUS 101, 310, 311, 315 or 316, MUS 402, EDSC 375, EDF 415, EDSC 420, 421; EDTE 314 and SPED 315.

Students in this program must take the following as part of their General Education requirements: HIST 161 or 162 in Study Area II, PSY 236 in Study Area III, PHYS 113 in Study Area IV, and ENG 110 in Skill Area I.

Note: This major does not require a minor.

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

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

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

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

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

The piano proficiency exam consists of the following:

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

**MINOR IN MUSIC**

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

18 credits in music, as follows:

Area I: 9 credits from MUS 109, 110, 111, 112, 115, 116, 121, 122, 221

Area II: 4–5 credits from MUS 114, 250, 251, 264, 273, 274, 350, 351, 380

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

Faculty
Cross appointed: B. O’Connell (Computer Science)

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

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

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

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

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

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

Students interested in pursuing this degree should contact the department.

Programs

MAJOR IN PHYSICS, BS (non-teaching)
39 credits in physics, including: PHYS 125, 126, 220, 250, 305, 320, 325, 331, 350, 425, 450, 460, 470, and 471. In addition, the student must take CHEM 161, 162, 163, and 164, and MATH 152, 221, and 222.

Completion of a minor is required, and for students planning graduate work a year of French, German, or Russian should be taken.

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

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

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

A year of French, German, or Russian is recommended if graduate study is being contemplated.
MAJOR IN PHYSICS, BS (Certifiable for secondary teaching)
33 credits in physics: PHYS 125, 126, 220, 250, 305, 320, 331, 350, 325, 425, 450, and 470. In addition, the student must take BIO 121; CHEM 161, 162, 163, 164; EDTE 315; EDF 415; SPED 315; EDSC 425, 435; RDG 440; SCI 416, 417, 419; MATH 152, 221, and 222.

MINOR IN PHYSICS (Certifiable for secondary teaching) Subject to change. 18 credits in physics, including PHYS 125, 126, 220, and 250, and 6 credits of physics electives. In addition, a student must take CHEM 161, 162, 163, 164; MATH 152, 153, 154, 221.

MAJOR IN EARTH SCIENCES, BS (Certifiable for secondary teaching) Subject to change.
30 credits in earth sciences, including ESCI 121, 122, 129, 178 or 179, 335, and other electives as approved by faculty advisor. In addition, the student must take CHEM 161, 162, 163, 164; PHYS 121, 122; BIO 121, 122; EDTE 316; EDF 415; SPED 315; EDSC 425, 435; RDG 440; SCI 416, 417, 419; and MATH 152, 221.

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

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

MINOR IN PHYSICS
18 credits in physics, including PHYS 125, 126, and 220. The remaining physics courses will be selected after consultation with the student's physics department advisor. In addition, the student must take MATH 152, 221, and 222.

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

MINOR IN GEOLOGY
18 credits in earth sciences, including ESCI 121, 122, 221, 321, and one course from ESCI 223, 424, and 450.

MINOR IN ASTRONOMY
18 credits in astronomy and related fields, including ESCI 178, 179, 278, and 330. The remaining course will be selected from PHYS 220, 325, or other electives after consultation with an earth sciences department advisor. In addition, the student must take MATH 152, 221, and PHYS 125, 126.

For Certification in Elementary Education, Complementary Subject

**MINOR IN GEOLOGY**
18 credits in earth sciences, including ESCI 121, 122, 221, 321, and one course from ESCI 223, 424, and 450.

**MINOR IN ASTRONOMY**
18 credits in astronomy and related fields, including ESCI 178, 179, 278, and 330. The remaining course will be selected from PHYS 220, 325, or other electives after consultation with an earth sciences department advisor. In addition, the student must take MATH 152, 221, and PHYS 125, 126.

**For Certification in Elementary Education, Complementary Subject**

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

**PSYCHOLOGY**

**Faculty**

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

Many psychology majors may wish to continue their studies in graduate or professional schools of psychology. Others enroll in non-psychology Professional Programs such as law, education, or social work. Still others study psychology to gain an understanding of people, for later use in management, teaching, or other business-related careers. Many students enter directly into psychology-related positions in such areas as rehabilitation or human services. Psychology provides a vehicle for personal development and an avenue for pursuing a liberal arts education. The study of psychology will broaden one's knowledge of people and their behavior and teach one how to study behavior in a scientific way.
The department places emphasis on quality teaching and supports and encourages student research and scholarship. For students interested in experimental psychology, laboratory and computer facilities are available. For those interested in developmental issues, excellent opportunities exist for observing and interacting with children. Faculty resources are always available for student consultation.

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

Faculty

Interdepartmental Staff

Advisors — M. Bednarski, J. Jarrett

Programs

MAJOR IN PSYCHOLOGY, BA
42 credits in psychology, including the following required courses: PSY 112, 113, 221, 222, 236, 330, and 490. One course is required from each of the following categories: social/personality, PSY 372 or 470; biological, PSY 342 or 450; experimental, PSY 200, 281, or 440; diversity, PSY 350 or 430, and 9 credits of psychology electives.

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

A minor is required for this major.

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

MINOR IN PSYCHOLOGY
18 credits, including PSY 112, and 15 credits of psychology electives.

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

SCIENCE AND SCIENCE EDUCATION

Faculty

Interdepartmental Staff

Advisors — M. Bednarski, J. Jarrett

Programs

MAJOR IN GENERAL SCIENCE, BS

Specialization in General Science (Certifiable for secondary teaching)
56–59 credits as follows:
1. Science and Mathematics Core (46 credits): BIO 121, 122; CHEM 161, 162, 163, and 164; ESCI 121, 129, 178 or 179; PHYS 121 and 122 or PHYS 125 and 126; MATH 121, 152; SCI 420
2. Track (10–13 credits), one of the following:
   - Physics: PHYS 125, 126, 220, 305, 325, 320, or 331; MATH 221, 222
   - Earth Sciences: ESCI 122, 221, or 278, 335
   - Chemistry: CHEM 238 or 301, 210, 211, 212, 213
   - Biology: BIO 200, 6–8 credits in biology at 300- or 400-level

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

Specialization in Physical Sciences
54 credits in science, including CHEM 161, 162, 163, 164; PHYS 125, 126; ESCI 121, 129, 178 or 179; BIO 121, 122. The remaining 18 credits are selected from courses in physics, chemistry, and the earth sciences which are approved for majors and minors in those fields. MATH 121, 152, 221 are also required. A minor is not required.

Specialization in Environmental Interpretation
53–57 credits in the natural sciences, or in approved areas, including the following:
- BIO 121, 122, 200; STAT 104 or CS 113; ESCI 121;
- Structured elective component: earth and planetary sciences. Four courses from the following or from other courses in earth science approved by the chair of the physics/earth sciences department: ESCI 129, 178, 179, 424, 450;
- Structured elective component: life sciences. Two courses from the following: BIO 120, 150, 315, 322, 326, 327, 405, 420, 421, 425, 444, 480, selected in consultation with an advisor; and
- Electives. In lieu of a minor at least 15 credits, with the advisor’s approval, from the following courses or from any of the natural sciences: ART 490; GEG 256, 272, 276, 433, 442; ANTH 150, 151, 422, 425; SCI 518.

At least 9 credits of the elective component must be from courses in biology, chemistry, physics, and the earth sciences, and must be completed at the 300 level or above. Three credits of internship (SCI 453) are also required.

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

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

Specialization — A minimum of 18 credits in a specialization including 6–8 credits in the core of the specialization:
- Biology — Requires BIO 121, 122 as core courses. 10–15 credits including BIO 200 and BIO elective(s) at the 300 or 400 level selected in consultation with an advisor.
- Earth Science — Requires ESCI 121, 129, and 178. ESCI electives (choose a minimum of 6 credits as needed to reach 39): ESCI 122, ESCI 179, ESCI 335, other electives as approved by advisor.

MINOR IN SCIENCE
24 credits as follows: 12 credits from BIO 121 (or BMS 102 and 103), CHEM 161 and 162, ESCI 121, or PHYS 121 (or 125), the remaining from BIO 122 (or BMS 201), CHEM 163 and 164, ESCI 178 or 179, and PHYS 122 (or 126). The student must take at least one course in each discipline (biology or biomolecular sciences, chemistry, physics, and earth sciences), and the 8 credits in the minor may be credited toward a major as well.

MINOR IN GENERAL SCIENCE
(Certifiable for secondary teaching)
Restricted to students with a major in biology, chemistry, earth science or physics.
32 credits in science, as follows: BIO 121 and 122; CHEM 161, 162, 163, and 164; PHYS 121 and 122; ESCI 121; and one of the following courses: BIO 318, CHEM 210 and 211 or PHYS 325, SCI 416, 417, and 419 are required.

SOCIAL SCIENCES

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

Program
MAJOR IN SOCIAL SCIENCES, BS
(Certifiable for secondary teaching)
54 credits as follows:
- 18 credits in history: HIST 121 and 122; 6 credits in 300-level U.S. surveys; HIST 301; and 3 elective credits in non-western history;
- 18 credits in one social science discipline (anthropology, economics, geography, political science, or sociology) as required by that department for a minor for secondary certificate students; and
- 18 credits in social science, chosen from the following courses: PS 104 and/or 110; ECON 200 and 201; GEOG 110 and/or 120; ANTH 140; SOC 110.

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

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

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

In addition, students must complete SSCI 421, SSCI 422, SPED 315, EDTE 316, EDT 315, RDG 440, EDF 415, EDSC 425, and EDSC 435, as well as PSY 236.

No minor is required.

SOCIOLOGY

Faculty

Department Overview
Sociology is the study of how our personal, everyday experiences affect and are affected by the larger society in which we live. The Department of Sociology provides students with a firm understanding of the complex social structures and processes which connect their private lives and experiences to their present society. Our goal is to prepare students to become thoughtful and engaged citizens in a complex and interdependent world. Specifically, the mission of the department is to foster logical and analytical reasoning, the development of a socio/historical consciousness, an understanding of values and needs and their relationship to a variety of life situations, and the understanding of social scientific inquiry.

Programs
MAJOR IN SOCIOLOGY, BA
The major in sociology requires 40 credits in sociology, including seven required core courses that enable students to acquire fundamental analytical research skills and theoretical perspectives of the discipline.

The core courses are SOC 110, 210, 212, 300, 310, either 410 or 412, as well as 495. Students additionally select 21 credits of sociology electives, 12 of which must be at the 300- and/or 400-level, and no more than 6 credits at the 100-level. Students are also required to successfully complete STAT 215. Substantive areas of study should be developed in conjunction with the student’s departmental advisor. Independent studies and internship opportunities are available to qualified majors.

The Department of Sociology’s curriculum prepares its majors for responsible positions in a wide variety of careers. Many graduates have taken positions in market research firms, social work and social service agencies, and human resources departments, as well as in numerous non- and for-profit businesses and organizations. Some graduates have chosen to pursue graduate degrees in fields such as law, business, social work, and sociology.

Students wishing to major in sociology are required to meet with the department chair to pick up introductory materials and information, as well as to be assigned a faculty advisor.

Students should note that the “core” courses build skills and concepts, and majors need to take the core courses in proper sequence. Successful completion of the core requires a minimum of three semesters, and potential majors should plan accordingly.

Students are also encouraged to participate in the Sociology Club and Alpha Kappa Delta, the International Sociology Honors Society.

MINOR IN SOCIOLOGY
Students must complete 18 credits in sociology. SOC 110 and SOC 212 are required. Of the remaining 12 credits, 6 must be at the 300 or 400 level.

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

THEATRE

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

Programs
MAJOR IN THEATRE, BFA
60–65 credits completed in one of the following programs. Note: A minor is not required with this major.

Acting, 60 credits as follows:
Core (48 credits): TH 101 (repeated 6 times), 111 or 121, 126, 135, 145, 246, 253, 275, 338, 347, 375 or 376, 483, 484; DAN 235, 236; and 3 credits selected from TH 447 or 456. 12 additional credits of theatre electives are also required.

Design and Technical Theatre, 65 credits as follows:
Core (52 credits): TH 111, 117, 121, 126, 211, 213, 217, 251, 253, 316, 318, 333, 375, 376; ART 130, 110; 6 credits from TH 481, 485, 486, 488, 491, 492, 493

Directed Electives (13 credits): Chosen from other theatre courses or from courses in related fields in consultation with advisor.
General Theatre. 60 credits in theatre, including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 17 credits of theatre electives and 14 credits of theatre or related fields courses approved by the student's advisor.

General Theatre/Educational Theatre (non-certification program). 60 credits in theatre including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 18 credits in the emphasis including: TH 143, 246, 352, 465, 495, and FA 296; 13 credits of theatre electives.

General Theatre/Dance. 60 credits in theatre including 26 credits required as follows: TH 101 (repeated three times), 110, 111, 117, 121, 126, 143, 145, 376; 18 credits of theatre electives and 16 credits of related fields courses as follows: DAN 151, 152, 157, 235, 236, 252, 257, 377, 480, and MUS 109.

General Theatre/Directing. 60 credits in theatre, including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 18 credits in the emphasis, including: TH 143, 246, 347, 352, 488 (repeated for 6 credits); 13 credits of theatre electives.

Costume Design. 65 credits as follows:
Core (48 credits): TH 111, 115, 117, 121, 126, 211, 222, 253, 327, 332, 333, 334, 375, 376, 482; ART 130, 110
Directed Electives (17 credits): Chosen from other theatre courses or from courses in related field in consultation with advisor.

MAJOR IN THEATRE, BA
34 credits as follows:
Core: 22 credits including TH 111, 115, 117, 121, 135, 143, 253, and 3 credits from TH 375, 376, 489

Emphasis: 6 credits from one of the following categories
• Acting/Theatre Voice: TH 145, 338, 246, 347*
• Directing: TH 352, 488
• Design/Tech: TH 115 (3 credits max.), 213, 217, 316, 318
• Costuming/Makeup: TH 115, 126, 222, 327, 332, 482
• Dance/Movement: At least 2 credits from DAN 235, 236; at least 2 credits from DAN 151, 152, 157, 252, 257;

and 2 credits from the above
Dance/Movement courses or DAN 377 Electives: 6 credits of theatre electives
*In the emphasis and electives mentioned above, acting/theatre voice majors are recommended to complete TH 145, 338, and 246.

MINOR IN THEATRE
21 credits in theatre, including TH 111, 117, 121, 135, 143, 253, and 3 credits from TH 375, 376, 489.

MINOR IN THEATRE (PERFORMANCE)
21 credits in performance, including TH 101 (3 times), TH 143, 145, 246, 347, and 6 credits from TH 115, 126, 135, 447, 456, 489, DAN 235.

MINOR IN DANCE
18 credits in dance and theatre, including DAN 151, 152, 157, 252, 257, 377, 480, TH 117, 121, and MUS 109. Not open to theatre majors.

SCHOOL OF ARTS AND SCIENCES CENTERS

The Copernican Planetarium and Observatory (Copernicus Hall) includes a full-function, optical planetarium that seats 108 people and is used for classes and programs for the community. The observatory, located on the roof of Copernicus Hall, is used for astronomical instruction for physics/earth sciences classes. It also supports student research in astronomical photography and observation using a modern 16-inch Cassgrain reflector and other telescopes.

The Institute for Science Education, coordinated by the Department of Biology, offers summer courses for elementary, middle, junior high, and high school science teachers. Hands-on activities that can be transferred to the classroom are emphasized. Topics have included the environment, the aquatic world, coastal ecology, science and the citizen, field biology, and plants in the laboratory.

The Polish Studies Center (DiLoreto 208-23) was established to foster within both the Polish-American and the American communities an awareness of Poland's culture, history, and civilization. In 1997 Connecticut's first, and New England's second, Endowed Chair in Polish and Polish-American Studies was established at CCSU. The center offers courses in Polish history, politics, culture and civilization, language, and the Polish community in America. The center's other resources include the Polish Heritage Book Collection, the Connecticut Polish American Archive, the annual Fiedorczyk lecture in Polish American Studies, the Milewski Polish Studies lecture, the Golowski Evening of Polish Culture, educational materials for teachers, movies, exhibits, scholarship aid for Polish-American students and for students pursuing Polish Studies, and the Martin and Sophie Gryzb prize for Excellence in Polish Studies.

The Weather Center (Copernicus 538) is a fully-functional weather forecasting facility, including a satellite downlink to the National Weather Service, computer data retrieval capability, color weather radar, and satellite access. It supports forecasting for the University community as well as faculty and student research in the atmospheric sciences.

COOPERATIVE PROGRAMS

Community-Technical College Transfer Minors
By agreement between the School of Arts and Sciences and the Connecticut Community-Technical College system, students who complete an associate's degree in a professional or technical program at a Connecticut community-technical college will receive transfer credit for the courses and may apply 18–24 credits of the specialization to a minor in a BA or BS (non-teaching) degree program offered by the School of Arts and Sciences. No residency credits at CCSU will be required for such a minor. Students are expected to complete a major (non-teaching) in the School of Arts and Sciences and to fulfill all other university requirements. The agreement includes, but is not limited to, programs in Corrections and in Drug and Alcohol Rehabilitation. For information, contact the office of the Dean of Arts and Sciences, DiLoreto Hall 112.

Engineering Transfer Program
This program provides the first-year and sophomore core courses needed for a wide variety of engineering fields. Constructed in
consultation with the School of Engineering at the University of Connecticut, it enables a limited number of students to transfer to that school after the sophomore year to complete the BS degree in either chemical, civil, electrical, or mechanical engineering in approximately two additional years.

The program at Central Connecticut State University includes laboratory courses in chemistry and physics, mathematics, computer science, CAD, freshman English, and various electives in social sciences and humanities.

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

Students planning to enroll should consult with the committee chair at the earliest opportunity. Inquiries should be addressed to the Engineering Transfer Program, Department of Physics and Earth Sciences, Central Connecticut State University, New Britain, CT 06050 (860-832-2932; 860-832-2930).

**UConn/CCSU Joint Program in Public Affairs**

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