Welcome to the 2005-06 Catalog

In some ways this book is the most important publication that Keene State College produces. Its pages describe a remarkable array of academic programs and courses. But here also is information about policies and resources, along with listings of the faculty, staff, and administrators whose job it is to work with KSC students in an extraordinary educational experience.

Keene State students, please use this book as a vital tool in your progress toward a degree. Keep it on hand for details about program requirements, policies, and resources to help you succeed. But also pick it up now and then just to browse the course listings – to think about what’s essential for your degree, but also to find unexpected subject areas to engage your curiosity. Use this book to help take hold of your college years, as you find the best directions in which to search, to experiment, and to learn.

Stanley J. Yarosewick
President
Inquiries and Visits

We welcome your inquiries about Keene State College. You may contact us by mail or telephone. You may also visit us at www.keene.edu. Send letters to a specific person or office at:

Keene State College
229 Main Street
Keene, NH 03435

Or call:
603-352-1909
800-KSC-1909
800-RELAYNH (800-735-2964) TDD

Visitors are always welcome. The official business hours of the College are Monday through Friday from 8 a.m. to 4:30 p.m. Visits may be arranged through the Office of Admissions by calling 800-KSC-1909 or 603-358-2276, or sending e-mail to admissions@keene.edu.
Contents

4 What's New for 2005-06
6 The College
  8 Programs of Study
10 2005-06 Academic Calendar
11 Undergraduate Programs
  12 Bachelor’s Degree Programs
  64 Minors
  73 Associate Degree Programs
77 Teacher Education/Certification Programs
79 Advanced Study in Education
  Master of Education Programs
  Post-Master’s Programs
  Post-Baccalaureate Programs
90 Courses of Instruction
  90 American Studies
  91 Anthropology
  92 Art
  94 Astronomy
  94 Biology
  98 Chemistry
  101 Communication
  102 Computer Science
  105 Economics
  106 Education
  111 English
  114 English as a Second Language
  115 Environmental Studies
  115 Film
  117 French
  117 Geography
  119 Geology
  121 German
  121 Health Science
124 History
127 Holocaust Studies
128 Interdisciplinary
129 Journalism
130 KSC Courses
131 Management
133 Mathematics
136 Meteorology
136 Modern Languages
136 Music
140 Philosophy
142 Physical Education
146 Physics
147 Political Science
148 Psychology
150 Social Science
150 Sociology
152 Spanish
153 Special Education
154 Technology, Design and Safety
158 Theatre and Dance
161 Women’s Studies
162 Academic Policies
174 Academic Support Programs
178 Academic Resources
182 Undergraduate Admission
188 Student Financial Services
195 Student Life
200 Appendix
220 Campus Map
222 Index
What’s New for 2005-06

Keene State College reviews the information published in the Undergraduate and Graduate Catalog on a continuous basis. This process may result in annual revisions to the list of academic programs available, academic program requirements, courses, College policies, procedures, and resources. Revisions typically reflect a modification of existing information, but may include additions and deletions as Keene State College faculty and staff implement the adjustments necessary to more effectively fulfill the mission of Keene State College.

Catalog revisions potentially impact students, faculty, and staff. This list of revisions is intended to assist students and advisors to quickly identify the most significant changes that become effective with the 2005-2006 Keene State College Undergraduate and Graduate Catalog.

Undergraduate Programs

Baccalaureate Degrees

The most significant revisions include:

Education – Editing of section to focus on degree requirements, and moving certification information to Teacher Education/Certification Programs section.

Health Science – Revising course requirements for the Health Science core and three options.

Music Education – Including ESEC 320 content into Music courses in major; ESEC 320 no longer required.

Physical Education – Revising course requirements for the Physical Education core and two options.

Teacher Certification - Reorganizing teacher certification requirements in a new Teacher Education/Certification Programs section of the Catalog.

Technology Studies – Placing Technology Education option under review; including an administrative hold on admissions.

Vocational Education – Deleting B.S. Vocational Education and Vocational Education (VE) courses.

Minors

Anthropology – Adding several new ANTH courses to expand options for electives.

Holocaust Studies – Redesigning the minor, adding several new HOLO courses, cross-listings, and changes to requirements.

Advanced Study in Education

Reorganizing general Advanced Study in Education information into a single introductory section followed by program options: Master of Education, Post-Master’s, and Post-Baccalaureate programs.

Affirmative Action Statement

Keene State College, in accordance with federal and state laws and regulations, does not discriminate on the basis of race, color, religion, national origin, sex, age, veteran’s status, handicap, or sexual orientation in any of its programs or activities. Inquiries regarding this policy should be made to the affirmative action officer, who is also the director of Human Resource
Management. Students with special needs may contact the associate vice president for Student Affairs. When necessary, class locations are changed to accommodate the requests of students with disabilities. Further inquiries may also be addressed to: Director, Office of Civil Rights, U.S. Department of Education, Washington, DC 20201.

Catalog Limitations
This catalog contains policies, programs, and procedures of Keene State College in effect at the time of preparation, January 2005. Keene State College reserves the right to change any of its rules and regulations at any time, including those relating to admission, instruction, and graduation. The right to withdraw curricula and specific courses, alter course content, change the calendar, and impose or increase tuition or other fees similarly is reserved. All changes are effective at such times as the proper authorities determine and may apply not only to prospective students but also to those who are already enrolled in the College. The provisions of this catalog are not, and should not be construed to be, a contract between the student and the College.

Catalog Contact
As part of an ongoing effort to insure the accuracy and effectiveness of the information printed in the Catalog, questions, concerns, and suggestions regarding Catalog content should be directed to Tom Richard at trichard@keene.edu, 358-2326, or MS 2600.
The College

Mission
It is the mission of Keene State College to provide and maintain an intellectual environment grounded in the liberal arts that fosters both the personal and professional growth of our students. In support of this mission the College promotes and sustains strong relationships among students, faculty, and staff that emphasize creative and critical thinking, scholarship and research, and a passion for learning. Through a mature commitment to learning and service, students will be able to integrate different forms of scholarship and will graduate with substantive knowledge in a chosen field of study. Through the retention and support of a caring staff and a faculty of effective teachers and active scholars, the College prepares students for success in a complex, interdependent world.

Campus Values
As a campus community, we value:

• Excellence in teaching, learning, and scholarship
• Diversity in our curriculum and in our community
• Creativity and intellectual curiosity
• Environmental stewardship and sustainability
• Cultural enrichment
• Service to the community
• A healthy balance between mind and body
• Lifelong learning
• An attractive and functional campus environment.

To further these values, we accept the following responsibilities:

• To provide access and educational opportunities to a diverse population
• To conduct ourselves with dignity and treat others with respect
• To devote time and attention to mentoring students
• To sustain a rich intellectual and social environment
• To protect and preserve the property of others
• To enhance the quality of life at Keene State College and the Monadnock region by sharing resources and sustaining the common good.

Description
Keene State College focuses primarily on undergraduate education and serves the citizens of New Hampshire and the region as a scholarly community of higher learning, offering associate’s, bachelor’s, and selected master’s degrees, and opportunities for continuing education in credit and noncredit programs and courses. Founded in 1909 as Keene Normal School, the institution became Keene Teachers College in 1939 and was named Keene State College in 1963, when it became affiliated with the University System of New Hampshire. Keene State College offers a liberal arts education through programs in the arts, humanities, and sciences, as well as professional programs based in the liberal arts, designed to prepare students for specific careers.

History
On April 9, 1909, New Hampshire Governor Henry B. Quinby signed legislation creating Keene Normal School, known today as Keene State College. With Jeremiah M. Rhodes as principal, the College opened on September 28 with 27 students enrolled. Programs in secondary education, trades and industries, and home economics were added under President Wallace E. Mason. In 1926, the New Hampshire Legislature granted the school authority to award the bachelor of education degree.

The curricula expanded into four-year programs by 1939, when the institution was officially named Keene
Teachers College. Dr. Lloyd P. Young became president and served for 25 years. Graduate studies were introduced through summer sessions and extension courses following World War II and, by 1951, graduate offerings warranted the granting of the master of education degree.

In 1963, the College was named Keene State College and became an affiliate of the University System of New Hampshire. In that same year, the state legislature authorized the College to develop curricula in the liberal arts and sciences leading to bachelor of arts and bachelor of science degrees.

Dr. Roman J. Zorn became president in 1964 and served until 1969.

Associate in science degree programs began in 1968, and the associate in arts in general studies was introduced in 1974.

Dr. Leo F. Redfern was named the College’s fifth president in 1969 and served until August 1979.

Dr. William E. Whybrew served as interim president during the 1979-80 academic year.

Dr. Barbara J. Seelye became the sixth president in 1980 and served until 1986.

Dr. Richard E. Cunningham served as interim president during the 1986-87 academic year.

Dr. Judith A. Sturnick became president in August 1987 and served until September 1993.

Dr. Richard E. Cunningham again served as interim president for the 1993-94 academic year.

Dr. Stanley J. Yarosewick became the eighth president of Keene State College on August 1, 1994.

The campus is located on Main Street in Keene (population 25,000), a small New England city chartered in 1753. Keene is surrounded by hills arising from the Connecticut River, while Mount Monadnock overlooks the city from 18 miles to the southeast. From its original 20 acres, the campus has expanded to 150 acres, with 70 buildings of traditional and contemporary architecture. Three of the buildings are registered as National Historic Landmarks. The College also owns a camp on Wilson Pond in nearby Swanzey and the 400-acre Louis Cabot Preserve on Lake Nubanusit in the towns of Nelson and Hancock.

Keene State College currently has an enrollment of 5,235 full- and part-time students, and offers nearly 40 major programs of study, as well as individualized study, cooperative education, and study abroad.

Accreditation

Keene State College is accredited by the New England Association of Schools and Colleges, Inc., a nongovernmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering postgraduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one that has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution’s accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association: Commission on Institutions of Higher Education New England Association of Schools and Colleges 209 Burlington Rd. Bedford, MA 01730 781-271-0022

In addition, Keene State is accredited by the New Hampshire State Board of Education, the National Council for Accreditation of Teacher Education, the National Association of Schools of Music, and the Commission for the Accreditation of Allied Health Education Programs.
Programs of Study

FOUR-YEAR PROGRAMS

BACHELOR DEGREES
BA: Bachelor of Arts
BFA: Bachelor of Fine Arts
BM: Bachelor of Music
BS: Bachelor of Science

American Studies, BA

Applied Computer Science, BS*

Art, BA
options in
Graphic Design
Studio Art

Art, BFA
options in
Graphic Design
Graphic Design and Studio Art (Dual Option)
Studio Art

Biology, BA/BS*

Chemistry, BA*/BS

Chemistry-Physics, BS*

Communication, BA
options in
Communication Studies
Philosophy

Computer Mathematics, BS

Economics, BA

Education, BS*
options in
Early Childhood Development*
Elementary Education*
Elementary Special Ed.*
Middle/Junior High Mathematics Ed.*
Secondary Special Ed.*

Engineering, BS (transfer programs)
English, BA*

Environmental Studies, BS
options in
Environmental Policy
specializations in
Economics
Geography
Political Science
Individualized

Environmental Science
specializations in
Environmental Biology
Environmental Chemistry
Environmental Geology
Individualized

Film Studies, BA
options in
Critical Studies
Film Production

French, BA*

General Science, BA*
options in
Elementary
Middle School

Geography, BA*

Geology, BS*

Health Science, BS
options in
Health Promotion and Fitness
Nutrition
Substance Abuse/Addictions

History, BA*
specializations in
U.S. History
European History
19th-Century Studies
20th-Century Studies

Individualized Major, BA/BS

Journalism, BA

Management, BS

Mathematics, BA*
options in
Applied Math
Elementary
Middle/Junior High
Pure Math
Secondary

Mathematics-Physics, BS

Music, BA
specializations in
Composition
History & Literature
Music for Elementary Teachers
Music Technology
Theory

Music Education, BM*
specializations in
Instrumental
Choral

Music Performance, BM

Physical Education, BS
options in
Athletic Training
Teacher Certification*

Physical Science, BA*

Psychology, BA
specializations in
Clinical Counseling
Developmental
Experimental
Personality/Social

Safety Studies, BS

Departmental Honors Program
Social Science, BA*
Sociology, BA*
Spanish, BA*
Technology Studies, BS
  options in
  Architectural Technology
  Product Design & Development
  Technology Education*

Program is currently under review; institutional hold on admissions.

Theatre and Dance, BA
  options in
  Acting/Directing
  Critical Studies
  Dance
  Design/Technical Theatre

MINORS
American Studies
Anthropology
Applied Computer Science
Art
Biology
Chemistry
Communication
Dance
Economics
English
Environmental Studies
Film Studies
French
Geography
Geology
German
History
Holocaust Studies
International Studies
Journalism-Broadcast Media
Journalism-Print Media
Management
Mathematics
Mathematics Education
Music
Philosophy
Physics
Political Science
Psychology
Safety Studies
Sociology
Spanish
Statistics
Technology Studies
Theatre
Women’s Studies
Writing

TWO-YEAR PROGRAMS
ASSOCIATE DEGREES
  AA: Associate in Arts
  AS: Associate in Science

  Applied Computer Science, AS
  Chemical Dependency, AS
  General Studies, AA/AS
  Technology Studies, AS

ADVANCED STUDY IN EDUCATION

Certification is available in each graduate program

MASTER OF EDUCATION
  Curriculum & Instruction
  Educational Leadership
  School Counselor
  Special Education

POST-MASTER’S CERTIFICATION PROGRAM
  Educational Leadership
  School Counselor

*Majors in which teacher certification is available.
Note: All elementary, early childhood, elementary/special, and secondary special education majors must incorporate an additional major into their programs of study.
1 Certification is in Chemistry Education or Physical Science Education
2 Certification is in Social Studies
3 Certification is in Earth Science Education
4 Certification is in Physical Science Endorsement in Driver Education is also available.
2005-06 Academic Calendar

Fall Semester – 2005

AUGUST
27 Residence halls open for new students at 9 a.m.
28 Residence halls open for returning students at 9 a.m.
29 Classes and add/drop period begin at 8 a.m.

SEPTEMBER
2 Add/drop period ends at 4:30 p.m.
5 Labor Day holiday
6 Course withdrawal (W) period begins at 8 a.m.

OCTOBER
4 Rosh Hashanah*
7 Midsemester break (one day only) for faculty, students
13 Yom Kippur*
16 Fall Honors Convocation
17 Second quarter begins

NOVEMBER
11 Veterans Day holiday observed
10 Last day to withdraw from a course
23 Classes end at 9:30 p.m.
24 Thanksgiving recess begins
27 Residence halls close at noon
28 Residence halls reopen at 10 a.m.
29 Classes resume at 8 a.m.

DECEMBER
9 Classes end at 5 p.m.
12 Reading Day
Final exams begin at 6 p.m.
16 Final exams end at 5:30 p.m.
17 Residence halls close at noon

Spring Semester – 2006

JANUARY
15 Residence halls open at 10 a.m.
16 Martin Luther King Jr. Day holiday
17 Classes and add/drop period begin at 8 a.m.
23 Add/drop period ends at 10 p.m.
24 Course withdrawal (W) period begins at 8 a.m.

MARCH
6 Fourth quarter begins
10 Spring vacation begins at 4:30 p.m.
19 Residence halls reopen at 10 a.m.
20 Classes resume at 8 a.m.

APRIL
7 Last day to withdraw from a course
13 Passover*
14 Good Friday*
16 Easter*
28 Classes end at 5 p.m.

MAY
1 Reading Day
Final exams begin at 6 p.m.
5 Final exams end at 5:30 p.m.
6 Residence halls close at noon, except for graduates
Spring Honors Convocation 5 p.m.
7 Commencement ceremony 1 p.m.
Residence halls close at 6 p.m.

Summer Semester I – 2006

MAY
14 Residence halls open at 1 p.m.
15 Classes and add/drop period begin at 7:30 a.m.
17 Add/drop period ends at 4:30 p.m.
18 Course withdrawal (W) period begins at 7:30 a.m.
29 Memorial Day holiday

JUNE
9 Course withdrawal period ends
23 Classes/exams end at 4:30 p.m.
Residence halls close at 7 p.m.

Summer Semester II – 2006

JUNE
26 Residence halls open at 1 p.m.
26 Classes and add/drop period begin at 7:30 a.m.
28 Add/drop period ends at 4:30 p.m.
29 Course withdrawal (W) period begins at 7:30 a.m.

JULY
4 Fourth of July holiday
21 Course withdrawal (W) period ends

AUGUST
4 Classes/exams end at 4:30 p.m.
Residence halls close at 7 p.m.

*Not a College holiday but listed here
for use in planning College events.
Academic Program Planning

Education in the liberal arts and sciences and in several professional fields is provided through associate and bachelor’s degree programs. These programs include three basic components: GENERAL EDUCATION REQUIREMENTS, established by the College, provide breadth and balance; MAJOR/OPTION/SPECIALIZATION OR CONCENTRATION REQUIREMENTS, specified by discipline faculty, offer depth of scholarship through specialization in a field of interest; and ELECTIVES, selected by the student, provide the opportunity to develop a minor, to fulfill teacher certification requirements, or to take courses in other areas for personal and professional growth. Detailed descriptions of the various degree programs are found in the following pages of this catalog.

Because curriculum development is a continuing process, program changes may be made after publication of this catalog. Therefore, the College reserves the right to add, change, or delete curricular offerings and/or make curricular refinements. Sometimes changes are necessitated by agencies that accredit the College or certify students. Check with academic disciplines, the Elliot Center, or the Teacher Education Programs Office to learn of any recent changes.
Bachelor’s Degree Programs

Bachelor’s Degrees
A liberal education emphasizes breadth and balance in developing intellectual resources and cultural perspectives. It encourages the student to achieve the fullest possible development as a person and as a member of society. It also promotes enlightened citizenship and provides basic preparation for students planning to enter professional or graduate schools or embark on a career. Building on a general education foundation, this degree allows a specialized emphasis while at the same time encouraging social responsibility.

The general aspects of the curriculum are designed to enhance the student’s capacity for thought and effective expression, and facilitate both the expansion and the integration of knowledge. Depth of scholarship is developed in the major field of specialization. The goal of a liberal education is the formulation of a philosophy of life based on knowledge and reflection relevant and appropriate to the contemporary world.

The Bachelor of Arts degree consists of a minimum of 120 credit hours.

The Bachelor of Science degree normally consists of 126 credits.

Definitions

Major. A program of study comprising a coherent set of courses and experiences within a discipline, related disciplines, or a professional area, which represents the curricular content of a bachelor’s degree. Normally, a bachelor’s degree major consists of at least 30 credit hours. Courses required in the major may not be used to fulfill General Education requirements unless specified in the program description.

Option. A coherent subset of courses that constitutes a prescribed track within a major. Normally, an option consists of 9 to 48 credit hours.

Specialization. An area of special interest comprising a cluster of related courses that are selected by the student in consultation with an academic advisor. Normally, a specialization consists of 9 to 18 credit hours within a degree option.

Language Requirement
for Students with Majors in the School of Arts and Humanities
The minimal language requirement for all students with a major in American Studies, Art, Communication, English, Film Studies, French, History, Journalism, Music, Spanish, or Theatre and Dance is proficiency in a language other than English as demonstrated by one of the following:

1. Satisfactory completion of one language course other than English at the intermediate level, or higher.
2. Satisfactory completion of a standardized examination.
3. Transfer/substitution of an appropriate modern language course at the intermediate level from another college or university.

Process for Awarding Credit
• The Modern Language department test will be given in the fall during the first week of classes, and both fall and spring semesters the week before registration begins. The test cannot be repeated.
• The successful completion of the departmental examination will be reported by Modern Languages faculty to the appropriate administrative office in the Elliot...
Center, using the format designated by that office. No credit will be granted to the student for the successful completion of this examination.

• The departmental examination will also be used by Modern Languages faculty as an assessment and placement tool for any students who continue in their language study. Upon the successful completion of FR/GER/SP 202 or higher (typically 315 or, in the case of French and Spanish, 316),* with a grade of B or higher, all students will be granted credit for those courses in the major or minor that are preliminary to the one at which they were placed (to a maximum of eight credits). The current configuration of those courses is: FR/GER/SP 201, 202.

*Typically, 315 is offered in the fall, 316 in the spring. A student who takes the departmental test during the fall semester and whose score exceeds that for 202 would, of necessity, be placed in 316.

The course or courses completed to satisfy the language requirement may be applied as appropriate to the Arts and Humanities component (B) of the General Education requirements.

General Education Requirements

Goals
Every liberally educated person should have familiarity with and facility in natural sciences, mathematics, social sciences, the arts, and the humanities. To achieve this goal, the purpose of general education at Keene State College is to help students cultivate:

• general knowledge in the natural world, the social world, and the world of arts and letters
• an understanding of their own cultural background and place in human history
• an understanding of and respect for diversity and cultural differences
• familiarity with the practice of creative expression
• an appreciation for the critical importance of ethical and civil behavior and personal responsibility
• the knowledge and skills necessary to engage as an informed and involved citizen in a democratic society
• the development of social and personal values
• life skills that will promote mental, physical, and emotional well-being.

Competencies
Keene State College students will demonstrate the following basic competencies:

• an ability to communicate effectively with others, both orally and in writing
• an ability to read critically and effectively
• an ability to reason quantitatively
• an ability to think critically and creatively
• fundamental computer skills
• fundamental research skills.

Requirements

(minimum) 43 credits
General Education at Keene State College has four components: English Language Competence, Arts and Humanities, Social Sciences, and Sciences/Mathematics. All bachelor’s degree programs have the same General Education requirements. In general, the selection of
courses for purposes of General Education is open. However, some major programs specify courses because (1) they are required or suggested prerequisites for major courses, (2) the courses are an integral part of the overall goals of the major program, or (3) they fulfill competency standards required for certification and licensing.

A. English Language Competence
4 credits
Essay Writing (ENG 101), a 4-credit course, is required of all students. It should be completed during the freshman year and is not open to juniors or seniors unless they are transfer students. (This was formerly a 3-credit course. This change will affect the number of credits required for General Education and, in some cases, for graduation and should be discussed with your advisor.)

B. Arts and Humanities
15 credits
A minimum of 15 credits as follows:
• One course in literature, which may be any 200- or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312. French 303 and Spanish 303 may also be used to fulfill this requirement.
• One course in History.
• One course in Art, Film Studies, Music, or Theatre and Dance.
• Additional credits in American Studies, Art, Communication, English, Film Studies, History, Journalism, Modern Languages, Music, Philosophy, Theatre and Dance, or an approved interdisciplinary course (WS 201 or an IDAH course).

C. Social Sciences
12 credits
• A minimum of 12 credits in three or more Social Science disciplines: Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or an approved interdisciplinary course (WS 201 or an IDSS course).

D. Sciences/Mathematics
12 credits
A minimum of 12 credits as follows:
• One course in Biology.
• One course in a Physical Science: Astronomy, Chemistry, Geology, Meteorology, or Physics.
• Additional credits in Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, Physics, or an approved interdisciplinary course (designated IDSM).
American Studies
Bachelor of Arts

The American Studies program at Keene State College is dedicated to providing students with a uniquely flexible, diverse, and integrative liberal arts education. Students who engage in American Studies are engaged in an exciting, challenging interdisciplinary and multidisciplinary exploration of historical and contemporary American culture and the American multicultural identity, including its past and present values, conflicts, and experiences. Working closely with an advisor who is a core faculty member in American Studies, students design their course of study both in core courses and in a range of disciplines/area requirements in American literature, American history and thought, the arts (including film and music), and the social sciences (including sociology, anthropology, political science, geography, and economics).

Guided by faculty devoted to teaching and mentoring, majors and minors gain a rich knowledge and understanding of the American experience; develop a grounding in a variety of disciplines that relate to the study of American culture; learn to read resourcefully and analytically texts in various cultural and historical contexts; and develop the ability to integrate knowledge, perspectives, and methodologies from more than one discipline and make use of interdisciplinary/multidisciplinary approaches to understand and interpret American culture. The American Studies program honors each student’s interests and aspirations while emphasizing that all students share the need to develop the knowledge and skills — in writing, critical thinking, making connections, and communicating constructively with others — so essential for academic work, careers, and life. Special opportunities exist for internships, both in American Studies courses and in a variety of off-campus settings. Students also have the opportunity to study abroad for a semester, thereby gaining valuable experience in another culture and fresh perspectives on American culture.

American Studies is one of the most useful and versatile majors. The variety of prospective careers for American Studies students includes elementary education; secondary education (Social Studies, English, and American Studies); college teaching; law; business; work in libraries, museums, and historic preservation; newspaper/magazine/broadcast journalism; film/media work; work in federal, state, and local agencies, both public and private; government and politics; nonprofit organizations; writing/editing/publishing; international relations and diplomacy; public relations and advertising; and social services.

LANGUAGE REQUIREMENT

The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement is located at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS

(minimum) 43 credits

Courses, if appropriate, taken for the American Studies major may count toward the Arts and Humanities component (B) or the Social Sciences component (C) of the General Education requirements. Some courses in the major may have required prerequisites that may satisfy either General Education or elective requirements.

MAJOR REQUIREMENTS

(minimum) 37 credits

Each student must confer with a core American Studies faculty member in planning a course of study.

At least four courses in the major must be at the 300 level or higher, including at least one course at the 400 level.

Core Requirements

AMST 210 Introduction to American Studies
Select one of the following:
AMST 250 Interpreting American Culture
AMST 290 Special Topics (when appropriate)
ENG 247 Readings in American Indian Studies
ENG 280 Cultural Studies (when appropriate)
ENG 290 Topics (when appropriate)
ENG 341 Early American Literature
ENG 342 19th-Century American Literature
ENG 345 Black American Literature
ENG 347 Modern American Indian Literature
ENG 370 Studies in Literatures of the Americas
ENG 381 Women Writers (when appropriate)

Select one of the following:
AMST 390 Critical Approaches
AMST 490 Advanced Special Topics
AMST 495 American Studies Seminar

Area Requirements

NOTE: Course content must focus on American authors, artists, thinkers, society, etc. AMST 497 (Internship) and AMST 498 (Ind. Study) may be substituted to meet area requirements when appropriate.

Select three courses in American History and Thought (two must be in American History):
HIST 253, 261, 262, 265, 266, 269, 290 (when appropriate), 360-367, 393 (when appropriate), 490, 495/498 (when appropriate); PHIL 304, 490/498 (when appropriate)
Select two courses in American Literature:
  ENG 240, 280, 290 (when appropriate), AMST 290, ENG 341, 342, 343, 344, 345, 346, 347, 381, 390, 495/498 (when appropriate), SP 330

Select a combined total of three courses from American Arts and/or American Social Sciences:
  American Arts
  ART 214, 290, 495/498 (when appropriate)
  MU 112, 116, 212, 218
  FILM 290, 352, 355, 495/498 (when appropriate)
  TAD 495/498 (when appropriate)
  American Social Sciences
  ANTH 313, 315
  ECON 455, 490 (when appropriate)
  GEOG 203, 341, 343, 345
  POSC 211, 221, 322, 332, 341, 381
  SOC 305, 321, 325, 370, 425, 450, 472, 475, 490, 498 (when appropriate)

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

Recommended electives: ECON 329, 340; HIST 341, 342; POSC 205, 322, 401, 405; SOC 326.

DEGREE REQUIREMENTS
120 credits

Applied Computer Science
Bachelor of Science

This program provides students with a thorough grounding in computer programming and information science. Additional course work is required to form a minimal foundation in mathematics and a second discipline. Two additional advanced electives are required. These courses may be applied toward a second major in a non-computer-science field or an academic minor. Students are encouraged to obtain a non-computer-science minor in order to form a foundation of knowledge in another discipline to which Computer Science may be applied. This “dual track” approach prepares graduates for a wide range of government, commercial, and academic pursuits, either in computer/information sciences or in fields in which this discipline is commonly used in application or research. Emphasis is put on consultations with the departmental academic advisor to ensure that electives within and outside the Computer Science discipline meet student, academic, and industry objectives.

With the selection of appropriate CS electives, and completion of education core courses, the requirements of the New Hampshire K-12 computer technology teaching certificate will be satisfied.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MATH 141 Introductory Statistics is required to foster the ability to use a computer to solve simple statistical problems and may apply toward the Sciences/Mathematics component (D) of the General Education requirements. Statistics competency may be fulfilled by completing PSYC 251 Psychological Statistics that will then count toward (C) Social Sciences. A science elective will then be taken towards completion of (D) Science/Math, in place of MATH 141 Introductory Statistics.

For teacher certification in Computer Technology Education (K-12), the following courses must be included in the General Education requirements:

One U.S. History course in the Arts and Humanities component (B) and one Geography course in the Social Sciences component (C).

MAJOR REQUIREMENTS
44 credits

Programming Core
CS 140 Computer Programming I
CS 160 PC Hardware Fundamentals
CS 185 Computer Programming II
CS 280 Data Structures

Capstone Course
CS 495 Seminar in Information Systems

Second Language Requirement
One CS course in a programming language other than primary language taken in CS-140/185/280, and approved by advisor. Current offerings are:
  CS 205 Elementary Visual Basic
  CS 220 COBOL
  CS 230 iSeries 400 RPG Programming
  CS 265 Assembly Language

Other courses are available on an irregular basis as the industry changes.

Upper-Level CS Electives
Four CS 300-level courses, not listed above
Two CS 400-level courses, not listed above

Computer Architecture Requirement
One CS course, approved by student’s advisor, in a second, non-Windows/NT computer architecture. Currently, this
requirement can be satisfied by a course utilizing the iSeries 400 or UNIX operating systems. This course may satisfy this requirement and the above-listed requirements simultaneously or may be a separate elective.

Supervised Field Experience Requirement
Students are required to complete at least 3 credits in supervised field experience. CS 293 and/or CS 493 may be taken for 1-3 credits per experience.

INTERDISCIPLINARY REQUIREMENT
Select one of the following:

1. Applied Computer Science (18 credits)
   a. MATH 120 Intermediate Algebra and Trigonometry (Note: Higher-level mathematics courses, including pre-calculus and calculus, are encouraged and may be taken instead of MATH 120), and
   b. Computer content-related electives from non-CS disciplines: Three elective courses (9 credits minimum) in any one single non-CS discipline with no more than one introductory course, to fit the student’s interests and skills in any discipline (Computers are in such wide use today, they appear in all disciplines) and
   c. Two advanced courses (6 credits minimum) in any one discipline approved by CS faculty. These courses may be in same or different discipline than the above three electives. Normally, students are advised to take these two courses in the same discipline, and continue with other courses as necessary to receive an academic minor. However, exceptions can be made upon consultation with the academic advisor.

2. Dual Major (credits vary)
   Completion of course work for one of the following teacher certification majors (Note: Completion of student teaching is not required):
   Education – Early Childhood Education Option
   Education – Elementary Education Option
   Education – Elementary Special Education Option

3. Teacher Certification
   The following courses are required for K-12 Computer Technology Certification. The CS courses may be used to fulfill CS major requirements.
   a. Programming Core
      In addition to CS 160 PC Hardware Fundamentals, take CS 161 Microcomputer Systems.
   b. CS 300-level electives must be filled with:
      CS 305 Computer Usage in Educational Settings
      CS 390 Methods: Computer Education*
      CS 391 Methods: Field Experience *
      *Taken concurrently

   c. Teacher Education courses
      Completion of the following teacher education requirements (Note: MATH 171 may be substituted for MATH 120):
      ESEC 100 Introduction to Teaching
      ESEC 150 Development, Exceptionality, & Learning I*
      ESEC 250 Development, Exceptionality, & Learning II
      ESEC 320 Educational Environments/Practices
      ESEC 387 Creating Social Contexts for Learning
      ESEC 450 Seminar – Educational Principles**
      ESEC 465 Student Teaching (elementary)
      ESEC 465 Student Teaching (secondary)
      *Course requires a minimum of one to three hours of fieldwork in the schools or service learning.
      **Taken concurrently with Student Teaching

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Art
Bachelor of Arts

The Bachelor of Arts degree in Art is designed to meet a variety of student needs through courses in art history, painting, sculpture, printmaking, ceramics, drawing, photography, and graphic design. Through the program’s flexibility and rich variety, students are encouraged to develop their skills and broaden their knowledge in courses that can lead to graduate school or a variety of careers in visual art and graphic design. The Studio Art option introduces and fosters the individual development of four major areas of study: Painting, Sculpture, Printmaking, and Ceramics. Throughout introductory, intermediate, and advanced courses, a balance of theoretical and technical knowledge is emphasized. The Studio Art option is designed to enable each student to focus on one of these areas. The Graphic Design option introduces and fosters the individual development of four major areas of study: Painting, Sculpture, Printmaking, and Ceramics. Throughout introductory, intermediate, and advanced courses, a balance of theoretical and technical knowledge is emphasized. The Studio Art option is designed to enable each student to focus on one of these areas. The Graphic Design option provides students with a foundation in the theory and practice of graphic design. Graphic designers convert concepts into visual language. Graduates from the Graphic Design option are prepared for design-related careers such as publishing, advertising, web design, and multi-media graphics.

ADMISSIONS CRITERIA
Entrance into the Art major is highly competitive. To become an Art major (Graphic Design and Studio Art options), a portfolio of 10-20 pieces of artwork in studio art or graphic
design must be submitted and accepted (see below). Upon acceptance, students will be assigned an Art faculty advisor and within their first year must officially declare their major. Due to the selective nature of the Art program, the number of available openings is limited. All students are accepted to the Art major through the portfolio approval process. It is anticipated that most students who enter the Art major do so directly from high school and will submit a portfolio of work before they begin classes at Keene State College. Transfer students are also required to submit a portfolio as part of the application process. Based on their artwork produced at other accredited institutions, transfer students may request a waiver of some requirements. Students who are already enrolled at Keene State College with another major or who have not declared a major must also submit a portfolio to be accepted into the Art major. The portfolio for enrolled students must include work from a minimum of two Keene State College art courses. The portfolio acceptance process for enrolled students is conducted at the beginning of the fall and spring semesters. It is highly recommended that enrolled students submit their portfolios by the beginning of their sophomore year at Keene State College.

PORTFOLIO REQUIREMENTS
1. Ten to twenty pieces of original artwork in Studio Art or Graphic Design.

2. The portfolio should include original artwork in 35mm slide or digital format. Zip and CD-ROM discs should be formatted for the Macintosh operating system and created as a self-running presentation.

3. All slides or discs must be clearly labeled with your name and be numbered.

4. An accompanying numbered informational slide sheet must be included to correspond to the slides or disc. Please indicate each work’s title, medium, dimensions, and level of completion (freshman, sophomore, junior, or senior). If the work was completed independently, what was your idea?

5. It is advisable to include examples of your drawing ability.

6. Indicate your area of interest with regard to Studio Art, Graphic Design, or both.

7. Please include your name, address, telephone number, and e-mail address.

8. Please include the following information:
   a. List the number and description of all art courses taken on the high school or college level.
   b. List extracurricular activities and interests.
   c. What are your career goals?

9. Please send portfolio to:
   Art Department Portfolio Review Committee
   Art Department Office
   Keene State College
   229 Main St
   Keene NH 03435-2405

Portfolios without the above information will be automatically placed on a waiting list while all other portfolios are reviewed. After this time, if there are any remaining openings, incomplete portfolios will then be considered.

All portfolios will be accepted, refused, or put on a waiting list.

With regard to portfolios on the waiting list, all decisions will be made by April 1.

GRAPHIC DESIGN RETENTION STANDARD
Graphic Design students will be expected to maintain a cumulative GPA of 3.0 or better in the following four Graphic Design core classes: ART 245, 246, 348, and 349. This GPA evaluation will occur at the end of the semester in which ART 349 is completed. The Graphic Design Coordinator will complete the GPA evaluation.

In addition, a portfolio review of work from the four Graphic Design core classes will occur following the completion of ART 349 Intermediate Graphic Design. A panel of three Graphic Design faculty will conduct this portfolio review.

Graphic Design transfer students must take ART 245, 246, 348, and 349. ART 245 and/or 246 may be substituted for equivalent courses from an accredited institution; however, ART 348 and 349 must be taken at Keene State College. Transfer students will be expected to maintain a cumulative GPA of 3.0 or better in ART 348 and 349 and will be required to submit a portfolio of quality work from these classes at the completion of ART 349 in order to continue in the Graphic Design program.

Students falling below the minimum GPA of 3.0 and not having a quality portfolio of work from these classes will not be allowed to continue in the Graphic Design program.

The Art Department also offers five fellowships for outstanding junior and senior Art majors. The stipend is for one academic year and requires some service to the Art Department on a weekly basis. The application process is conducted annually during the spring semester.

The Art faculty reserves the right to hold occasional pieces of student artwork for a period of up to two years for exhibitions and demonstrations. The greatest possible care is exercised to protect the work.
LANGUANGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement is located at the beginning of the Bachelor’s Degree Programs section in this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MAJOR REQUIREMENTS
48 credits

Foundation Core (12 credits)
ART 102 Two-Dimensional Design
ART 103 Three-Dimensional Design
ART 111 Introduction to Art
ART 125 Drawing I

An Art major must select one of the following options:

Studio Art Option (36 credits)
200-level courses (21 credits)
ART 225 Drawing II
ART 208 Ceramics I
ART 226 Painting I
ART 231 Printmaking I
ART 244 Sculpture I
Two 200-level Art History courses
300-level courses (9 credits)
ART 325 Drawing III
Two of the following:
ART 308 Ceramics II
ART 326 Painting II
ART 331 Printmaking II
ART 344 Sculpture II
400-level courses (6 credits)
One 400-level Art course
ART 495 Senior Seminar

Graphic Design Option (36 credits)
200-level courses (18 credits)
One 200-level Art History course
ART 226 Painting I
ART 231 Printmaking I
200-level or above studio elective
ART 245 Graphic Design Fundamentals
ART 246 Computers and Design
300-level courses (9 credits)
ART 348 Typography
ART 349 Intermediate Graphic Design
ART 350 Electronic Imaging
400-level courses (9 credits)
ART 444 Advanced Graphic Design
ART 445 Topics in Graphic Design
ART 448 Portfolio

ELECTIVES
Select courses to reach a total of 120 credits for the degree.
Students who plan to apply to graduate programs in the visual arts should consider the BFA program.

DEGREE REQUIREMENTS
120 credits

Art
Bachelor of Fine Arts

The Bachelor of Fine Arts degree is a highly selective program that is designed to provide students with an intensely comprehensive degree opportunity consisting of a minimum of 72 credits in visual art courses. The BFA degree can lead directly to graduate study (MFA) or to professional careers in the Graphic Design field.

The BFA degree is organized into the following three options:

Graphic Design
Graphic Design and Studio Art (Dual Option)
Studio Art

To be eligible for the BFA degree, students must first be accepted into the BA program in Art. Students may apply to the BFA program after the completion of a minimum of 9 courses (27 credits) in art, which must include the Foundation Core. Graphic Design Option and Graphic Design and Studio Art Dual Option applicants must take Art 245 Fundamentals of Graphic Design and Art 348 Typography as part of the 27-credit minimum. A minimum cumulative GPA of 3.0 is required for the art courses. Acceptance to the program is based on an assessment of a portfolio* of artwork from these courses. The portfolio and a written statement of personal educational goals, along with an official transcript, must be submitted to the BFA Standards Committee. Portfolio reviews are conducted during each spring semester prior to the course selection and registration period.

Transfer students are also eligible to apply for the BFA program provided they meet the admissions standards for the BA degree in Art as well as those for the BFA degree. This must include a review by the Art Faculty of a completed transfer course evaluation of all previously taken art courses.
Once accepted, all BFA candidates must maintain a minimum cumulative GPA of 3.0 in the major (Art courses). The BFA Standards Committee will also conduct mid-level reviews of BFA students after they have enrolled in 6 courses (18 credits) of major requirements. These reviews will be conducted during the spring semester, prior to the course selection and registration period. The purpose of the review is to assess the candidate’s progress toward the completion of the degree as well as the development of their artwork. Individuals whose GPA falls below the minimum standard or whose artwork is not on an appropriate level for the BFA will no longer be eligible for the program and will return to the BA program. Students who do not maintain BFA standards will be allowed to reapply provided that the deficiencies have been corrected. BFA candidates must also meet with the BFA Standards Committee prior to the required BFA Senior Exhibition. The committee will conduct an oral review in which the candidate will outline the rationale of the direction that he/she is planning for the exhibition. All BFA candidates must participate in the BFA Senior Exhibition as a graduation requirement.

*BFA PORTFOLIO CRITERIA
1. Portfolios must consist of no fewer than 20 pieces of college-level artwork.

2. All work must be properly labeled with the following information:
   A. Name
   B. Medium
   C. Size (slide and digital portfolios only)
   D. Course title and date of execution

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement is located at the beginning of the Bachelor’s Degree Programs section in this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MAJOR REQUIREMENTS
72 credits

Foundation Core (12 credits)
   ART 102 Two Dimensional Design
   ART 103 Three Dimensional Design
   ART 111 Introduction to Art
   ART 125 Drawing I

Graphic Design Option (60 credits)
200-level courses (27 credits)
   ART 225 Drawing II
   ART 226 Painting I
   ART 231 Printmaking I
   ART 245 Graphic Design Fundamentals
   ART 246 Computers and Design
   ART 247 Illustration
   200-level (or above) Studio Elective (Note: ART 224 Photography is suggested)
   Two 200-level Art History Courses

300-level courses (15 credits)
   ART 325 Drawing III
   ART 348 Typography
   ART 349 Intermediate Graphic Design
   ART 350 Electronic Imaging
   ART 351 History of Graphic Design

400-level courses (18 credits)
   ART 444 Advanced Graphic Design
   ART 445 Topics in Graphic Design (2 semesters, 6 credits)
   ART 448 Portfolio
   ART 496 BFA Senior Studio (2 semesters, 6 credits)
   (ART 445 Topics in Graphic Design may be repeated as topics change)

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Graphic Design and Studio Art Dual Option
(60 credits)
STUDIO & ART HISTORY COURSES (36 credits)
200-level courses (21 credits)
   ART 208 Ceramics I
   ART 225 Drawing II
   ART 226 Painting I
   ART 231 Printmaking I
   ART 244 Sculpture I
   Two 200-level Art History courses

300-level courses (6 credits)
   ART 325 Drawing III
   One of the following:
      ART 308 Ceramics II
      ART 326 Painting II
      ART 331 Printmaking II
      ART 344 Sculpture II

400-level courses (9 credits)
   ART 495 Senior Seminar
   ART 496 BFA Senior Studio (2 semesters, 6 credits)
GRAPHIC DESIGN COURSES (24 credits)
200-level courses (6 credits)
  ART 245 Graphic Design Fundamentals
  ART 246 Computers and Design

300-level courses (9 credits)
  ART 348 Typography
  ART 349 Intermediate Graphic Design
  ART 350 Electronic Imaging

400-level courses (9 credits)
  ART 444 Advanced Graphic Design
  ART 445 Topics in Graphic Design
  ART 448 Portfolio

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Studio Art Option (60 credits)
200-level courses (30 credits)
  ART 208 Ceramics I
  ART 225 Drawing II (2 semesters, 6 credits)
  ART 226 Painting I
  ART 231 Printmaking I
  ART 244 Sculpture I
  Studio Elective 200 level or above

Three 200-level Art History Courses

300-level courses (12 credits)
  ART 325 Drawing III (2 semesters, 6 credits)
  Two of the following:
    ART 308 Ceramics II
    ART 326 Painting II
    ART 331 Printmaking II
    ART 344 Sculpture II

400-level courses (18 credits)
  Three 400-level Studio Courses
  ART 495 Senior Seminar
  ART 496 BFA Senior Studio (2 semesters, 6 credits)

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Biology
Bachelor of Arts

The Bachelor of Arts in Biology provides an introduction to the discipline and an opportunity to integrate the study of Biology with another field. In contrast to the B.S. program, the B.A. requires fewer credits in both biology and related sciences, permitting a student to complete a second major or additional courses in another discipline such as Elementary Education, Journalism, Art, Management, or Computer Science; thus, it satisfies the needs of students with a combination of interests.

Students must complete 36 credits in Biology. The introductory chemistry and biology sequences should be taken during the freshman year. Statistics, two semesters of Chemistry, and a semester of Physics or Geology are required; Organic Chemistry and two semesters of Physics and Mathematics or Computer Science are strongly recommended.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Asterisked courses may be applied toward the Sciences/Mathematics component (D) of the General Education requirements.

MAJOR REQUIREMENTS
51-52 credits

Introductory Sequence (8 credits)
*BIO 151 Life: Diversity
*BIO 152 Life: Diversity Lab
*BIO 153 Life: Processes
*BIO 154 Life: Processes Lab

Sophomore Core Courses (16-17 credits)
(C or better in BIO 151 – 154 required to take sophomore core courses)
BIO 251 Genetics
BIO 252 Ecology & Evolution
BIO 253 Physiology of Plants and Animals or
  BIO 232/233 Human Anatomy & Physiology II & Lab
BIO 254 Cell Biology
  Two of the following courses:
    BIO 255 Experimental Genetics
    BIO 256 Ecology & Evolution Lab
    BIO 257 Experimental Physiology
    BIO 280 Research Rotations

Organismal Courses (4 credits)
One of the following courses:
  BIO 322 Flowering Plant Biology
  BIO 333 Invertebrate Zoology
BIO 334 Vertebrate Zoology  
BIO 351 Ornithology  
BIO 352 Entomology  
BIO 365 Plant Anatomy and Morphology  
BIO 415 Microbial Diversity

Upper-level BIO Electives (7-8 credits)  
Choose any 300- or 400-level BIO courses to bring total credits in Biology to 36 credits.

Related Science/Math Courses (15 credits)  
*CHEM 111/115 General Chemistry I/Experimental Gen Chem I  
*CHEM 112/116 General Chemistry II/Experimental Gen Chem II  
*MATH 141 Introductory Statistics  
One of the following courses:  
  *PHYS 141 College Physics I  
  *GEO 201 Introductory Physical Geology

ELECTIVES  
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS  
120 credits

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Biology

Bachelor of Science

The Bachelor of Science program in Biology is designed to stimulate intellectual and personal growth through an examination of the fundamental properties of living systems, the application of experimental and descriptive methods of discovery, and the consideration of the social, ethical, and aesthetic implications of biological knowledge. The B.S. program also provides undergraduate training for entering technical employment, graduate school, or professions such as medicine, dentistry, veterinary medicine, optometry, teaching, forestry, and wildlife management. After one semester, any Biology major considering graduate or professional school should confer with a Biology advisor to plan a program to meet the student’s specific needs and assure entrance into such a school. The introductory sequences in Biology and Chemistry should be completed during the freshman year.

GENERAL EDUCATION REQUIREMENTS  
(minimum 43 credits)  
Courses in chemistry, geology, physics, mathematics and biology (BIO 151/152 or 153/154) may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

For teacher certification in Biology (secondary), the following courses must be included in the General Education requirements:

One U.S. History course in the Arts and Humanities component (B);  
One Geography course in the Social Sciences component (C).

For teacher certification in Biology, students must take GEOL 201 to satisfy the General Education requirement in Sciences/Mathematics.

MAJOR REQUIREMENTS  
79-80 credits

Introductory Sequence (8 credits)  
BIO 151 Life: Diversity  
BIO 152 Life: Diversity Lab  
BIO 153 Life: Processes  
BIO 154 Life: Processes Lab

Sophomore Core Courses (16-17 credits)  
(C or better in BIO 151-154 required to take sophomore core courses)  
BIO 251 Genetics  
BIO 252 Ecology & Evolution  
BIO 253 Physiology of Plants and Animals or BIO 232/233 Human Anatomy & Physiol. II & Lab  
BIO 254 Cell Biology  
Two of the following courses:  
  BIO 255 Experimental Genetics  
  BIO 256 Ecology & Evolution Lab  
  BIO 257 Experimental Physiology  
  BIO 280 Research Rotations

Junior/Senior Core Courses (16 credits)  
BIO 401 Biochemistry  
BIO 403 Experimental Biochemistry  
BIO 495 Biology Seminar

Organismal Courses (4 credits)  
One of the following courses:  
BIO 322 Flowering Plant Biology  
BIO 333 Invertebrate Zoology  
BIO 334 Vertebrate Zoology  
BIO 351 Ornithology  
BIO 352 Entomology  
BIO 365 Plant Evolution  
BIO 415 Microbial Diversity

One of the following courses or course pairs (5 credits)  
BACHELOR’S DEGREE PROGRAMS

BIO 452 Community and Ecosystem Ecology and BIO 457 Research Methods: Ecology
BIO 454 Ecological Physiology and BIO 457 Research Methods: Physiology
BIO 455 Comparative Animal Physiology and BIO 458 Research Methods: Physiology
BIO 405 Molecular Biology
BIO 408 Developmental Biology
BIO 409 Neurobiology

Upper-level BIO Electives (7-8 credits)
Choose any 300- or 400-level BIO courses to bring total credits in Biology to 48 credits.

Related Science/Math Courses (31 credits)
CHEM 111/115 General Chemistry I/Experimental General Chemistry I
CHEM 112/116 General Chemistry II/Experimental General Chemistry II
CHEM 221/225 Organic Chemistry I and Lab
CHEM 222/226 Organic Chemistry II and Lab
PHYS 141 College Physics I
PHYS 142 College Physics II
MATH 151 Calculus I
MATH 141 Introductory Statistics

ELECTIVES
Select courses to reach a total of 126 credits for the degree.
Students are encouraged to include courses in their program according to career objectives as follows:
For teacher preparation in Biology (secondary), the following courses are required (34 credits):
Orientation
ESEC 100 Introduction to Teaching

Bachelor of Arts

The following course is highly recommended:
Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
126 credits

Chemistry

Bachelor of Arts

Broadly based in the liberal arts tradition, the B.A. in Chemistry has been designed for students interested in careers in areas that use chemistry as a base, such as the health-related professions, pharmaceutical marketing, secondary science education, chemistry-related industry, and/or entrance to graduate school. By combining this major with any one of a number of minors, considerable flexibility is provided to the student.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Mathematics and Physics courses may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

For teacher certification in chemistry (secondary), the following courses must be included in the General Education requirements:
A U.S. History course in the Arts and Humanities component (B); a Geography course in the Social Sciences component (C); a Geology course; and PHYS 210 History of Science.

MAJOR REQUIREMENTS
65 credits
CHEM 111/115-112/116 General Chemistry I, II and Labs
CHEM 221/225-222/226 Organic Chemistry I, II and Labs
CHEM 251/255 Quantitative Analysis and Lab
CHEM 341/345-342/346 Physical Chemistry I, II and Labs
CHEM 401/403 Biochemistry and Lab
CHEM Electives (6 credits)

Related Fields (23 credits)
BIO 153, 154 [BIO 254 recommended]
MATH 141 Introductory Statistics
MATH 151, 152 Calculus I, II  
PHYS 141-142 College Physics I, II

**ELECTIVES**
Select courses to reach a total of 120 credits for the degree.

For teacher preparation in Chemistry (secondary), the following courses are required (34 credits):

- **Orientation**
  - ESEC 100 Introduction to Teaching

- **Learners**
  - ESEC 150 Development, Exceptionality, and Learning I*
  - ESEC 250 Development, Exceptionality, and Learning II

- **Fundamentals**
  - ESEC 282 Literacy in Content Areas*

- **Settings**
  - ESEC 320 Educational Environments/Practices

- **Methodology**
  - ESEC 385: Methods: Secondary
  - ESEC 386: Methods: Field Experience

- **Systems**
  - ESEC 450 Seminar: Education Principles

- **Practice**
  - ESEC 460 Student Teaching

  The following course is highly recommended:

- **Pedagogy**
  - ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

**DEGREE REQUIREMENTS**
120 credits

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**Chemistry**

**Bachelor of Science**

The B.S. in Chemistry should serve as a general preparation for a professional scientist. The major was designed according to guidelines from the American Chemical Society (ACS) to be rigorous, yet flexible enough to allow for preparation for immediate employment, graduate study, or work in an allied profession.

From the introductory through the advanced level of courses, students have access to the instrumentation and facilities of the department. The faculty values a hands-on approach to chemical education. The major is structured to provide a strong background for work culminating in a final year which is flexible enough to allow faculty-directed independent research or interdisciplinary study.

Students considering a major in Chemistry should consult a member of the faculty for advice on the sequence of courses, as the courses in related fields described below are prerequisites for upper-level study.

**GENERAL EDUCATION REQUIREMENTS**
*(minimum) 43 credits*

Required courses in Math and Physics may apply toward the Sciences/Mathematics component (D) of the General Education requirements. Most students should consider a 200 level biology course for their biology component.

**MAJOR REQUIREMENTS**
69 credits

- **Chemistry (43 credits)**
  - CHEM 111/115 and CHEM 112/116 General Chemistry I, II and Labs
  - CHEM 221/225 and CHEM 222/226 Organic Chemistry I, II and Labs
  - CHEM 251/255 Quantitative Analysis and Lab
  - CHEM 341/345 and CHEM 342/346 Physical Chemistry I, II and Labs
  - CHEM 363/365 Inorganic Chemistry and Lab
  - CHEM 382 Occupational Safety and Health
  - CHEM 454/456 Instrumental Analysis and Lab

- **Electives within the Major**
  - (minimum 7 credits)

Students must take at least 7 credits of chemistry upper-level electives. These may be any 300-level or greater chemistry course. Independent study is encouraged to provide an undergraduate research experience. For students interested in an interdisciplinary focus, 3 of the 7 credits may be from an approved list outside chemistry, including Physics 260 Electronics, Biology 405 Molecular Biology, or Geology 412 Environmental Geochemistry.

- **Related fields (19 credits)**
  - MATH 141 Introductory Statistics
  - MATH 151-152 Calculus I, II
  - PHYS 141-142 College Physics I, II or PHYS 241-242 University Physics I, II

**DEGREE REQUIREMENTS**
126 credits
Chemistry-Physics

Bachelor of Science

In today’s changing job market, competency in two or more basic fields of science enhances opportunity for employment and professional growth potential. This major fulfills such a need. This interdisciplinary major provides grounding in two related sciences, with balance in both. By completing the Teacher Education Option outlined below, students are prepared for certification as Chemistry teachers for grades 7-12.**

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

For teacher certification in Chemistry, the following courses must be included in the General Education requirements:

A U.S. History course in the Arts and Humanities component (B), and

A Geography course in the Social Sciences component (C).

As prerequisites for major courses, MATH 151, 152, 251 and BIO 153, 154 (Teacher Certification Option) must be completed. These along with the core requirements fulfill the Sciences/Math portion of the General Education requirements.

MAJOR REQUIREMENTS

Professional Option (47 credits)
The Professional Option consists of 25 credits in Chemistry and 22 credits in Physics. For graduate study in either field, a few additional courses may be necessary.

CHEM 111/115-112/116 General Chemistry I, II and Labs
CHEM 220/224 Fundamental Organic Chemistry & Lab
CHEM 341/345 Physical Chemistry I and Lab
CHEM Electives (8 credits)
PHYS 241, 242, 245 University Physics I, II, III
PHYS 260 Electronics
PHYS Electives (6 credits; 300-level and above)

Teacher Certification Option (Secondary)
(92 credits)
The Teacher Certification Option for teacher preparation in Chemistry provides grounding in two related physical sciences, with balance in both. It consists of 32 credits in Chemistry, 26 credits in Physics, and 34 credits in Education.

CHEMISTRY/PHYSICS REQUIREMENTS (58 credits)
CHEM 111/115-112/116 General Chemistry I, II & Labs
CHEM 221/225-222/226 Organic Chemistry I, II and Labs
CHEM 251/255 Quantitative Analysis and Lab
CHEM 341/345 Physical Chemistry I and Lab or
CHEM 342/346 Physical chemistry II and Lab
CHEM 401 Biochemistry
CHEM Electives (3 credits; 300 level and above)
PHYS 210 History of Science
PHYS 241, 242, 245 (University Physics I, II, III)
PHYS 260 Electronics
ASTR 307 University Astronomy
PHYS 342 Modern Physics
PHYS Electives (1 credit)

TEACHER EDUCATION REQUIREMENTS
(34 credits)

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas*

Settings
ESEC 320 Educational Environments and Practices

Methodology
ESEC 385: Methods: Secondary
ESEC 386: Methods: Field Experience

Systems
ESEC 450 Seminar: Education Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

**Additional certification in Physical Science may be obtained by choosing two additional courses from the following: GEOL 201, 202, 206, MET 225.

DEGREE REQUIREMENTS

126 credits (Professional Option)
134 credits (Teacher Certification Option)

Communication

Bachelor of Arts

The Communication major is an interdisciplinary program combining courses in Communication, Film, Journalism, and Philosophy. The major is designed to take a broad-based, humanities-centered view of the symbolic ways humans
create meaning. The program will focus on development of skills as students learn to work with various communication tools improving their own ability to interact effectively with others and on increasing critical awareness as students study the structure, patterns and effects of communication on both themselves and society. Career options for graduates might include public relations, human resources or advocacy, media entertainment, advertising, or sales.

Students majoring in Communication must complete a minimum of thirteen courses (39 credits) in the areas specified below. A grade of C or better must be earned in each course counted toward the major. Communication majors may count courses used for the major toward a minor in Film, Journalism, or Philosophy; however, credits may not be counted twice.

**LANGUAGE REQUIREMENT**
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement is located at the beginning of the Bachelor’s Degree Programs section in this catalog.

**GENERAL EDUCATION REQUIREMENTS**
*(minimum) 43 credits*

Courses taken for the Communication major may not count toward the Arts and Humanities component (B) of General Education. However, students may take additional courses in Communication, Film, Journalism, or Philosophy to fulfill specific Arts and Humanities requirements of General Education.

**MAJOR REQUIREMENTS**
*40-46 credits*

The application for formal admission to the Communication major typically occurs during the first or second semester of the sophomore year. To be admitted to the major, the student must have completed COMM 175, PHIL 100, and either JRN 200 or FILM 270. The student must earn a grade of at least a C in the three courses and achieve an average GPA of at least 2.5 in the three courses. The student must provide a transcript showing his or her grades to a Communication advisor. If the grade requirements are met, the advisor will sign the declaration of major form which formally admits the student to the major.

**Communication Core**
*13 credits*

Required of all students with a major in Communication:

**FOUNDATIONS OF THE MAJOR**
*Two courses required*
PHIL 100 Logical Argumentation
COMM 175 Principles of Communication

**INTRODUCTION TO FILM AND JOURNALISM**
*Two courses required*
FILM 270 Introduction to Film Analysis (4 credits)
JRN 200 Introduction to Mass Media

1. **Communication Studies Option**
*(27-33 credits)*

**ETHICS**
*One course required*
COMM 477 Ethics in Communication
JRN/PHIL 322 Media Ethics
PHIL 220 Ethics

**THEORY**
*One course required*
COMM 376 Theory of Communication and Rhetoric
FILM 355 Film Theory (4 credits)
JRN 310 Media History and Theory
PHIL 350 Aesthetics

**APPLICATION SEQUENCE**
Select one of the following two-course sequences
COMM 171 Fundamentals of Speech and
COMM 371 Advanced Public Speaking
FILM 250 Film Production I (4 credits) and
FILM 350 Film Production II (4 credits)
JRN 201 News Writing I - Introductory and
JRN 301 News Writing II - Reporting
JRN 201 News Writing I - Introductory and
JRN 302 Broadcast Journalism
PHIL 200 Philosophy and Critical Analysis and
PHIL 300 Ancient Philosophy or
PHIL 301 Medieval and Renaissance Phil. or
PHIL 302 Modern Philosophy or
PHIL 304 American Philosophy
PHIL 306 Existentialism and
PHIL 406 Existentialism and Film

**BREADTH COURSES**
*One course required from each of two different areas*

Courses fulfilling another requirement in the Communication major may not fulfill this requirement.
COMM 171 Fundamentals of Speech
COMM 250 Children and the Media
COMM 275 Interpersonal Communication
COMM 290 Special Topics
COMM 371 Advanced Public Speaking
COMM 375 Business and Professional Communication
FILM 271 Introduction to Film History (4 credits)
JRN 201 News Writing I - Introductory
2. Philosophy Option (27-28 credits)
The Philosophy option provides students with general coverage of basic philosophical issues while developing student skills in critical and analytical thinking and exposing students to a wide range of historical and ethical manifestations of philosophical beliefs.

ETHICS
PHIL 220 Ethics

THEORY & APPLICATION SEQUENCE
Three courses required
PHIL 306 Existentialism
PHIL 350 Aesthetics
PHIL 406 Existentialism and Film

BREADTH COURSES
Two courses required: one from PHIL and one from either COMM, FILM, or JRN
COMM 171 Fundamentals of Speech
COMM 250 Children and the Media
COMM 275 Interpersonal Communication
COMM 290 Special Topics

COMM 371 Advanced Public Speaking
COMM 375 Business and Professional Communication
FILM 352 Genres and Directors (4 credits)
JRN 201 News Writing I - Introductory
JRN 290 Special Topics
JRN 301 News Writing II - Reporting
JRN 302 Broadcast Journalism
PHIL 300 Ancient Philosophy
PHIL 301 Medieval and Renaissance Philosophy
PHIL 302 Modern Philosophy
PHIL 304 American Philosophy
PHIL 308 Contemporary Philosophy
PHIL 360 Philosophy of Law

DEPTH COURSES
Two courses required
Courses fulfilling another requirement in the Communication major may not fulfill this requirement.
COMM 475 Persuasion
COMM 476 Group Interaction
COMM 490 Advanced Special Topics
COMM 495 Seminar
FILM 352 Film Genres and Directors (4 credits)
FILM 490 Advanced Special Topics (4 credits)
FILM 495 Seminar (4 credits)
JRN 401 Feature Writing
JRN 408 Television Journalism
JRN 410 Public Affairs Reporting
JRN 446 Community Television News
JRN 490 Advanced Special Topics
PHIL 390 Philosophical Masters (if an approved topic)
PHIL 490 Advanced Special Topics (if an approved topic)

SENIOR PROJECT
One course required
COMM 479 Senior Project

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Computer Mathematics
Bachelor of Science

This program provides students with a thorough grounding in both mathematics and computer science. Although the emphasis in the major is on mathematics, it is those aspects of mathematics which lend themselves most directly to the usefulness of the computer. Graduates of this program have been well prepared for entry-level positions in industry and have successfully earned graduate degrees in both mathematics and in computer science.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

The required Physics and Computer Science courses may apply toward the Sciences/Mathematics component (D) of the General Education requirements.
MAJOR REQUIREMENTS
54 credits
MATH 151 Calculus I
MATH 152 Calculus II
MATH 231 Linear Algebra
MATH 235 Discrete Mathematics
MATH 251 Calculus III
MATH 260 Numerical Methods
MATH 265 Mathematical Modeling
MATH 361 Differential Equations
CS 140 Computer Programming I
CS 185 Computer Programming II
CS 265 Assembly Language
CS 280 Data Structures
CS 410 Advanced Programming
PHYS 241 University Physics I
MATH/CS Electives (6 credits)

In addition to the above core courses, students must select an additional 6 credits from the MATH and/or CS areas at the 300/400 level. At least one course must be in Math.

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Economics majors must complete at least one Philosophy course, which may apply toward the Arts and Humanities component (B) of the General Education requirements.

Because the Economics faculty at Keene State College emphasize the relationship of economics to the other social sciences, Economics majors are advised to take at least four courses in three of the following disciplines: Anthropology, Political Science, Psychology, Sociology, Geography. They may apply toward the Social Sciences component (C) of the General Education requirements or for electives (III). Economics courses used for major credit may not apply toward the Social Sciences component (C) of the General Education requirements.

Introductory statistics (MATH 141 or PSYC 251), which may be applied as appropriate toward the Social Sciences component (B) or the Science/Mathematics component (D) of the General Education requirements, must also be completed.

MAJOR REQUIREMENTS
36 credits
ECON 201 Macroeconomics
ECON 202 Microeconomics
ECON 301 Intermediate Macroeconomics
ECON 302 Intermediate Microeconomics
ECON 320 Political Economy or
   ECON 350 Race, Class, and Gender or
   ECON 375 Marxian Economics
ECON 450 History of Economic Ideas
ECON 491 Research Project
Electives: 12 credits of 300 level or above Economics courses
MATH 141 Introductory Statistics or
   PSYC 251 Psychological Statistics

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Economics
Bachelor of Arts
This major combines rigorous training both in economic theory and in the application of the tools of economic analysis to critical contemporary issues. Successful candidates for the degree will be well prepared either for graduate school or for employment in business or the public sector.

All majors will complete a four-course sequence which consists of ECON 201 and 202 (in either order), and 301 and 302 (in either order). It is strongly recommended that students take 301 and 302 immediately after 201 and 202. In addition, majors will take ECON 450, which is typically a Fall-only offering. They will select one course in critical studies (320, 350, or 375), and four upper-level economics courses. Finally, ECON 491 is to be taken the Fall Semester of the senior year. The ECON 491 requirement cannot be satisfied through independent study.
Education

Bachelor of Science

The Education major has five tracks: Early Childhood Education, Elementary Education, Middle School Mathematics, Elementary/Special Education, and Secondary/Special Education.

The Education curriculum infuses development, special education, technology, and practice into the program. Care has been taken to systematically integrate field experiences throughout the pre-service program. Students must be prepared to participate in one to three hours per week of service learning or course-related assignments in schools.

Program planning and advising are critical components of the Education program. The course ESEC 100 Introduction to Teaching is offered to first-year students in the fall and spring. This course is designed to involve students in exploring the teaching profession, making preliminary career choices, and planning their years of study at the college. The ROUTE Handbook, required for ESEC 100 and available in the KSC Bookstore, is developed to support students in planning their studies. Advising is available through the introductory courses and advising session with faculty each semester.

Students are assigned an official advisor upon acceptance into the Teacher Education program. Admission to Keene State College does not necessarily guarantee admission to Teacher Education, admission to Student Teaching, or eligibility for certification. Policies and deadlines are described under the Teacher Education/Certification Options section of this catalog and also in the ROUTE Handbook. Materials for application to Teacher Education are available in the Teacher Education & Graduate Studies Office in Rhodes Hall.

Transfer Credits: Students who wish to transfer credits into a teacher certification option must apply through the Department chair. Ordinarily, no more than four credits from another institution may be applied to satisfy program requirements due to the uniqueness of ESEC courses.

Second Major: Students seeking certification in Early Childhood, Elementary, and Elementary/Special Education are required to complete a second major. Students must fulfill requirements specified by any one of the following majors:

American Studies
Applied Computer Science
Art (portfolio requirement)
Biology
Chemistry

Chemistry-Physics
Communication
Computer Mathematics
Economics
English
Environmental Studies
Film Studies
French
General Science
Geography
Geology
History
Individualized Major
Journalism
Mathematics
Mathematics-Physics
Music (audition required)
Psychology
Social Science
Sociology
Spanish
Theatre and Dance

Students pursuing a major in Education and certification in Middle/Junior High School Mathematics must complete a second major in mathematics. Students selecting a major in Education and certification in Secondary/Special Education must complete a second major chosen from the list of majors eligible for secondary certification (see Teacher Education/Certification Programs section of this catalog).

1. Early Childhood Development Option
This program provides students with a multidisciplinary understanding of early childhood development. It includes theory and practice with children from infancy through third grade, and fulfills requirements for Birth to Age Eight teacher certification.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
In partial fulfillment of the requirements, the following must be taken:

B. Arts and Humanities – ENG 286 and one course in U.S. History.
C. Social Sciences – one course in Geography.
D. Sciences/Mathematics – one science course with a lab; MATH 171.

SECOND MAJOR REQUIREMENTS
The N.H. State Department of Education, as well as those in many other states, requires that students taking programs of study in education must also demonstrate depth of
knowledge in a content area in order to become certified to teach. This requirement provides students with an intensive exposure to an academic area. One of the content majors from the list approved for Early Childhood (above) must be completed as part of the overall requirements.

**OPTION REQUIREMENTS**

40 credits

*Orientation*
ESEC 100 Introduction to Teaching

*Learners*
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

*Fundamentals*
ESEC 281 Emerging/Evolving Literacy *

*Settings*
ESEC 320 Educational Environments and Practices

*Methodology*
ESEC 381 Early Childhood Methods (Birth-Age 8)
ESEC 386 Methods: Field Experience

*Pedagogy*
ESEC 387 Creating Social Contexts for Learning

*Systems*
ESEC 450 Seminar: Educational Principles

*Practice*
ESEC 460 Student Teaching

*Course requires a minimum of one to three hours of field work in the schools or service learning.

Those students interested in pursuing dual certification in both Early Childhood Development and Elementary Education must meet with their advisor upon admission to Teacher Education.

2. Elementary Education Option
This option prepares students to teach in elementary schools and in non-departmentalized middle schools.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 43 credits*

In partial fulfillment of the requirements, the following must be taken:

B. Arts and Humanities – one course in U.S. History; one course in Art; one course in Music.
C. Social Sciences – one course in Geography.
D. Sciences/Mathematics – one science course with a lab; MATH 171 and MATH 172.

**SECOND MAJOR REQUIREMENTS**
The N.H. State Department of Education, as well as those in many other states, requires that students taking programs of study in education must also demonstrate depth of knowledge in a content area in order to become certified to teach. This requirement provides students with an intensive exposure to an academic area. One of the content majors from the list approved for Elementary Education (above) must be completed as part of the overall requirements.

**OPTION REQUIREMENTS**

40 credits

*Orientation*
ESEC 100 Introduction to Teaching

*Learners*
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

*Fundamentals*
ESEC 281 Emerging/Evolving Literacy *

*Settings*
ESEC 320 Educational Environments and Practices

*Methodology*
ESEC 383 Elementary Methods (K-8)
ESEC 386 Methods: Field Experience

*Pedagogy*
ESEC 387 Creating Social Contexts for Learning

*Systems*
ESEC 450 Seminar: Educational Principles

*Practice*
ESEC 460 Student Teaching

*Course requires a minimum of one to three hours of field work in the schools or service learning.

3. Middle/Junior High School Mathematics Education Option
This option prepares student to teach mathematics in departmentalized settings in grades 4 through 9.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 43 credits*

In partial fulfillment of the requirements, the following must be taken:

B. Arts and Humanities – one course in U.S. History.
C. Social Sciences – one course in Geography.
D. Sciences/Mathematics – CS 140; PHYS 241.
SECOND MAJOR REQUIREMENTS
A major in mathematics must be completed.
(41–42 credits)

OPTION REQUIREMENTS
37 credits
Orientation
ESEC 100 Introduction to Teaching
Learners
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II
Fundamentals
ESEC 282 Literacy in the Content Areas *
Settings
ESEC 320 Educational Environments and Practices
Methodology
ESEC 384 Methods: Middle School
ESEC 386 Methods: Field Experience
Pedagogy
ESEC 387 Creating Social Contexts for Learning
Practice
ESEC 460 Student Teaching
*Course requires a minimum of one to three hours of field work in the schools or service learning.

4. Elementary Special Education Option
This option is designed to develop skills in identifying, assessing, and teaching students with mild to moderate special needs in the elementary school setting. Emphasis is on inclusion of students into regular education programs to the extent feasible and on identifying and providing necessary support services.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
In partial fulfillment of the requirements, the following must be taken:
B. Arts and Humanities – one course in U.S. History; one course in Art; one course in Music.
C. Social Sciences – one course in Geography.
D. Sciences/Mathematics – one science course with a lab; MATH 171; MATH 172.

SECOND MAJOR REQUIREMENTS
The N.H. State Department of Education, as well as those in many other states, requires that students taking programs of study in education must also demonstrate depth of knowledge in a content area in order to become certified to teach. This requirement provides students with an intensive exposure to an academic area. One of the content majors from the list approved for Elementary Education /Special Education (above) must be completed as part of the overall requirements.

OPTION REQUIREMENTS
55 credits
Orientation
ESEC 100 Introduction to Teaching
Learners
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II
Fundamentals
ESEC 281 Emerging/Evolving Literacy *
Settings
ESEC 320 Educational Environments and Practices
Methodology
ESEC 383 Elementary Methods (K-8)
ESEC 386 Methods: Field Experience
Pedagogy
ESEC 387 Creating Social Contexts for Learning
Practice
ESEC 465 Student Teaching
*Course requires a minimum of one to three hours of field work in the schools or service learning.

5. Secondary Special Education Option
This option is designed to develop skills in identifying, assessing, and teaching students with mild to moderate special needs in the middle/junior high and high school settings. Emphasis is on inclusion of students into regular education programs to the extent feasible and on identifying and providing necessary support services.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
In partial fulfillment of the requirements, the following must be taken:
B. Arts and Humanities – one course in U.S. History.

C. Social Sciences – one course in Geography.

D. Sciences/Mathematics – one science course with a lab; MATH 171; MATH 172.

SECOND MAJOR REQUIREMENTS
One of the following majors must be completed:

- Biology
- Chemistry
- Chemistry-Physics
- English
- French
- Geography
- Geology
- History
- Mathematics
- Music Education
- Physical Education Teacher Education
- Social Science
- Sociology
- Spanish

OPTION REQUIREMENTS
55 credits

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas *

Settings
ESEC 320 Educational Environments and Practices

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Pedagogy
ESEC 387 Creating Social Contexts for Learning

Systems
ESEC 450 Seminar: Educational Principles

Practice
SPED 460 Student Teaching (for certification in Secondary Special Education only) or
ESEC 465 and SPED 465 (for dual certification in Secondary Special Education and the subject area of the second major)

Special Education
SPED 301 Context for Teaching Students with Special Needs

SPED 401 Instruction and Curriculum Design in Special Education
SPED 420 Assessment in Special Education
SPED 439 Methods and Practicum: Secondary
SPED 525 Transition Planning and Programming

Additional certification in regular education requires the completion of a six-credit student teaching experience in the area of the student’s second major. (Satisfied by ESEC 465/SPED 465)

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
126 credits

Engineering
(TRANSFER PROGRAMS)

These programs prepare students to transfer to engineering schools after completing general education requirements and foundation courses in mathematics, physics, chemistry, and computer science at Keene State College. Students are given personal advising and assistance in placement at the engineering school of their choice. The College at present has transfer agreements at the University of New Hampshire and Clarkson University, as well as individual transfer arrangements with engineering schools in New England and New York State. In both 2+2 and 3+2 programs, students are encouraged to complete certain engineering science introductory courses at the engineering school during the summer following their sophomore year.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MAJOR REQUIREMENTS

A. 2+2 Program (21-24 credits)
Students transferring after two years at Keene State College receive the appropriate bachelor’s degree from their engineering school upon completion of engineering program requirements. Completion of engineering requirements usually takes between two and three years.

The following course list is a general guide. Additional courses are taken in specialty areas like Chemistry, depending on the prospective engineering field, or to meet requirements of a particular engineering school.
MATHEMATICS
MATH 151, 152, 251 Calculus Sequence
MATH 361 Differential Equations

PHYSICS
PHYS 241, 242, 245 University Physics I, II, III

COMPUTER SCIENCE
CS 140 Computer Programming I

B. 3+2 Program (46 credits)
Students spend three years at Keene State and two years in engineering school and receive a B.S. in Math/Physics from Keene State College and an appropriate B.S. in Engineering. Keene State has a formal 3+2 transfer agreement with Clarkson University in Potsdam, New York. Students who wish to continue receiving Financial Aid must postpone graduation from Keene State until all requirements are fulfilled at both institutions.

CS 140 Computer Programming I
MATH 151, 152, 251 Calculus Sequence
MATH 332 Linear Algebra
MATH 361 Differential Equations
MATH 468 Introduction to Applied Mathematics
PHYS 241, 242, 245 University Physics I, II, III
PHYS 260 Electronics
PHYS electives (6 credits; 300-level or higher)

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Modern Language courses may apply toward the Arts and Humanities component (B) of the General Education requirements.

MAJOR REQUIREMENTS
36 credits
ENG 209 Literary Analysis (Course must be taken before the completion of 13 credits in English)
You must choose one additional course at the 200 level, four at the 300 level, and three at the 400 level, including a course in theory.

Select two of the following courses in British literature (one from pre-1789 literature):
ENG 220 Readings in English Literature
ENG 321 English Literature: Beginnings to 18th Century
ENG 322 English Literature: 18th Century to Present
ENG 323 Medieval Literature
ENG 324 Chaucer
ENG 326 Shakespeare: Comedies and Histories
ENG 327 Shakespeare: Tragedies
ENG 328 Milton
ENG 329 19th-Century English Literature
ENG 330 Studies in British Literature

publishing, journalism, business, public relations, library science, and many other fields.

Students majoring in this field must complete a minimum of nine courses (36 credits) in English, in addition to ENG 101 Essay Writing and a general education literature course, which do not count toward the major. All English majors must take ENG 209 Literary Analysis, the introduction to the major, before completing 13 credits in English; this course is not open to seniors. Four of the nine required courses must be at the 300 level and three must be at the 400 level (one of which must be a theory course), for a total of seven courses at the 300 and 400 levels. Students must complete one 200-level literature course before taking a 300-level course and one 300-level course before taking a 400-level course. Students must take one course in pre-1789 British literature, and another course must cover pre-1789 in any area.

English
Bachelor of Arts

Students in the English major will study the historical development of English, American, and European literatures, as well as other literary and rhetorical traditions. The department stresses critical thinking, the analysis of texts, clear and effective writing, aesthetic appreciation, and theoretical sophistication. We value small class sizes and personal contact between faculty and students. English majors and minors can expect to work closely with their academic advisors to plan a course of study, and faculty work as mentors, guiding students to consider such opportunities as a semester of study abroad.

In addition to fostering a lifelong appreciation of literature and language, a degree in English provides a range of personal and professional opportunities. Surveys of employers consistently stress the value of the skills we teach: the ability to communicate effectively with others, to think critically and creatively, to read carefully, and to write with clarity and purpose. KSC English majors have gone on to graduate and professional schools; they are working in the field of teaching; they work as writers; and they are employed in
MAJOR REQUIREMENTS
ENG 312 Descriptive Grammar and one additional course in writing beyond ENG 101 and 209

EDUCATION REQUIREMENTS
Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
This part of the knowledge base is taken within the English discipline.

Settings
ESEC 320 Educational Environments and Practices

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Environmental Studies
Bachelor of Science

Environmental Studies is an interdisciplinary program comprising courses in Biology, Chemistry, Economics, Geography, Geology, and Political Science. The major is designed with two options, Environmental Policy and Environmental Science, to prepare students for a wide range of environment-related career opportunities. Students intending to major in Environmental Studies should select an advisor and formally declare their major as early as possible, preferably by the end of their first year.
GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Because of the interdisciplinary nature of the major and because some required courses are prerequisite to others, the Social Sciences (C) and Sciences/Mathematics components (D) of the General Education requirements (12 credits each) are mostly fulfilled. ENG 202 may apply toward the Arts and Humanities (B) General Education requirements (4 credits). Thus many credits of the major may apply toward completion of General Education requirements.

MAJOR REQUIREMENTS
Environmental Studies Core (36 credits)
All Environmental Studies students must take the following core courses, giving them broad exposure to the wide range of fields of environmental study and background for further specialization:

- BIO 151/152 Life: Diversity and Lab
- ECON 202 Microeconomics
- ENG 202 Expository Writing
- ENST 100 Introduction to Environmental Studies
- ENST 200 Intermediate Environmental Studies
- ENST 395 Junior Seminar
- ENST 495 Senior Seminar
- GEOG 204 Physical Geography
- GEOL 201 Introductory Physical Geology
- MATH 141 Introductory Statistics
- POSC 201 Introduction to Political Science

Environmental Policy Option (34-36 credits)
This option is designed for students wishing to acquire a strong environmentally oriented background in the Policy areas. Students completing this option should be prepared to investigate problems, and formulate and implement policies, relating to the environment, or alternatively, to continue environmental policy studies at the graduate level.

- POSC 332 Public Policy Analysis
- ECONS 340 Environmental Economics
- GEOG 330 Natural Resource Management
- CHEM 103/107 Fundamentals of Chemistry and Lab

One of the following map skills courses:
- GEOG 221 Maps and Map Reading
- GEOG 323 Cartography and Surveying
- GEOG 326 GIS: IDRISI
- GEOG 327 Introduction to Remote Sensing

Two of the following Environmental Science Courses:
- BIO 252 Ecology and Evolution
- CHEM 131 Chemistry and the Environment
- ENST 210 Energy and Environment
- GEOL 315 Environmental Geology

SPECIALIZATION REQUIREMENT:
12 credits at the 300 level or above in either Economics, Geography, or Political Science, selected in consultation with your advisor; or in an individualized specialization approved by the ENST Steering Committee in advance.

Environmental Science Option (42-46 credits)
This option is designed for students wishing to acquire a strong environmentally oriented background in the Natural Science areas. Students completing this option should be prepared to explore and resolve scientific problems relating to the environment, or alternatively, to continue environmental science studies at the graduate level.

- BIO 153/154 Life: Processes and Lab
- CHEM 111/115 and 112/116 General Chemistry I, II and Labs
- PHYS 141 and 142 College Physics I, II
- MATH 130 Precalculus or MATH 151 Calculus

One from:
- GEOL 206 Oceanography
- MET 225 Meteorology

SPECIALIZATION REQUIREMENT:
16-19 credits in either Biology, Chemistry, or Geology as outlined below; or in an individualized specialization approved by the ENST Steering Committee in advance.

ENVIRONMENTAL BIOLOGY SPECIALIZATION (16-17 credits)
- BIO 252/256 Ecology and Evolution and Lab
- BIO 451 Population Ecology
- BIO 452 Community and Ecosystem Ecology
- BIO 454 Ecological Physiology

ENVIRONMENTAL CHEMISTRY SPECIALIZATION (16-18 credits)
- CHEM 221/225 and 222/226 Organic Chemistry & Lab
- CHEM 352/356 Environmental Chemical Analysis & Lab

One of the following:
- CHEM 382/386 Occupational Safety and Health & Lab
- CHEM 401/403 Biochemistry & Lab
- BIO 315 General Microbiology
- GEOL 412 Environmental Geochemistry

ENVIRONMENTAL GEOLOGY SPECIALIZATION (17-19 credits)
- GEOG 202 Historical Geology
Two of the following “environmental” Geology courses:
- GEOL 315 Environmental Geology
- GEOL 412 Geochemistry
- GEOL 460 Hydrogeology

One of the following “structural” Geology courses:
- GEOL 303 Structural Geology
- GEOL 306 Stratigraphy
- GEOL 309 Geomorphology

One of the following map skills courses:
- GEOG 323 Cartography and Surveying
- GEOG 326 GIS: IDRISI
- GEOG 327 Introduction to Remote Sensing

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Film Studies
Bachelor of Arts

The Film Studies major balances theoretical and applied course work. Options offer opportunities to prepare for employment in a variety of fields; graduates most often go on to further study or careers in the analysis and/or production of film and television or to careers in areas of the business world such as personnel, counseling, advertising, public relations, and sales.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MAJOR REQUIREMENTS
41-45 credits

The Film Studies major provides Critical Studies and Film Production students alike with a strong visual, analytical, and aesthetic background as a common basis for each specialization. The Critical Studies Option offers students an extensive range of courses in film history and theory, treating film as a liberal arts discipline, a mass medium, and a technique of expression. Moderate requirements in film production supplement the primary emphasis on analysis of specific genres, directors, historical periods, and national cinemas. The Film Production Option provides students with intensive hands-on instruction in motion picture production. Courses emphasize technical and aesthetic aspects of narrative filmmaking, including scriptwriting, directing, cinematography, editing, and sound.

Film Studies Admission Criteria
a. An average grade of B (3.00) or better in FILM 250 Film Production I, FILM 270 Introduction to Film Analysis, and FILM 271 Introduction to Film History.

b. Submission for critical assessment of two projects completed during FILM 250 (for Production students) or one paper completed during FILM 270 or FILM 271 (for Critical Studies students).

c. Interview with Film Studies faculty, whose approval is required for admission.

d. When applying to the program, a student must declare which option s/he intends to complete.

e. Upon acceptance into the Film program, students must maintain a GPA within the program curriculum of 2.50, with a minimum grade of C in any required FILM course (those fulfilling either a Core or Option requirement). Students falling below this minimum will be placed on a one-semester probation, after which, if grade criteria have not been met, students will be dismissed from the program. Students may apply for acceptance to the Film program a maximum of two times (thus, students accepted into the program but later dismissed may reapply once). Further applications will not be entertained.

Film Studies Core (25 credits)
- FILM 250 Film Production I
- FILM 259 Film Studies Credit (one credit)
- FILM 270 Introduction to Film Analysis
- FILM 271 Introduction to Film History
- FILM 352 Film Genres and Directors
- FILM 355 Film Theory
- FILM 495 Seminar

Options (select one):

a. Film Production (20 credits)
- FILM 350 Film Production II
- FILM 351 Intermediate Production Studio
- FILM 440 Advanced Production Techniques
- FILM 450 Film Production III
- FILM 451 Film Production IV

b. Critical Studies (16 credits)
- FILM 352 Film Genres and Directors
- FILM 352 Film Genres and Directors
- FILM 495 Seminar
- FILM 499 Senior Research Project
ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

French
Bachelor of Arts
This major is designed for students who wish to prepare themselves to use French actively in careers in business, government, teaching, or other fields.

French majors are required to earn a minimum of 12 credits in at least one semester (or two summer sessions) of study abroad. Semester study abroad is more typically done in two consecutive summers. Students must take part in one of the College’s approved programs of study in Rennes (semester program), St. Malo (semester and summer programs), or Quebec (semester and summer programs). All students planning to study in a French-speaking country must consult with the National and International Exchange Office and French faculty before program selection to arrange for program approval and transfer of credit.

New students will be assigned to the proper course on the basis of placement interviews with the Modern Language faculty. In general, however, students who have had no prior instruction or experience with a language should register for 101. Students with one or two years of successful high school study should register for 102. Students with three or more years should register for 201. Exceptions to these guidelines will be granted only by the Modern Language faculty.

For proper program advisement, potential majors should consult with a French advisor upon admission to Keene State College.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement is located at the beginning of the section (Bachelor’s Degree Programs) in this Catalog.

GENERAL EDUCATION REQUIREMENTS (minimum) 43 credits
For teacher certification in French (secondary), the following courses must be included in the General Education requirements: a U.S. History course in the Arts and Humanities component (B) and a Geography course in the Social Sciences component (C).

MAJOR REQUIREMENTS
44 credits
ML 101 The World of Language
FR 201-202 Intermediate French I & II
FR 303 Introduction to French Literature
FR 315 Conversation in French
FR 316 Composition in French
FR 320 Commercial French or FR 405 Contemporary French Usage
FR 350 Study in France or Quebec (minimum of 12 credits)
FR 495 Seminar
HIST 340 The French Revolution and the Napoleonic Empire or HIST 349 France Since 1815
Three credits on French topics selected from courses such as:
FR 290 or FR 498 with approval of French faculty.

ELECTIVES
Select courses to reach a total of 120 credits for the degree.
For teacher preparation in French (secondary), the following courses are required:
Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas*

Settings
ESEC 320 Educational Environments and Practices

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:
Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits
General Science

Bachelor of Arts

The Bachelor of Arts in General Science provides a broad-based foundation in three major areas: Earth/Space science, Life science and Physical science. It is an ideal major for the pre-service elementary or middle-school teacher as it addresses national recommendations for improving science education with an activity and hands-on focus.

GENERAL EDUCATION REQUIREMENTS (minimum) 43 credits

Courses included in the core may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

If you seek Elementary, Early Childhood, or Elementary Special Education certification, please refer to the specific General Education requirements for each option in the Education section of this catalog.

If you seek Middle School teacher certification, in partial fulfillment of the General Education requirements, the following must be taken:

- Arts and Humanities (B) – a course in U.S. History
- Social Sciences (C) - a course in Geography

MAJOR REQUIREMENTS

All students must complete the core courses and select one of the program options.

Core (31-32 credits)

- ASTR 101 Elementary Astronomy or ASTR 307 University Astronomy (3 credits)
- BIO 151 and BIO 152 Life: Diversity & Lab (4 credits)
- BIO 153 and BIO 154 Life: Processes & Lab (4 credits)
- BIO 252 Ecology & Evolution (3 credits)
- GEOL 201 Intro to Physical Geology (4 credits)
- GEOL 202 Historical Geology (4 credits)

One from:

- MATH 120 Applied Algebra & Trigonometry (3 credits)
- MATH 130 Precalculus (3 credits)
- MATH 151 Calculus I (4 credits)
- MET 225 Meteorology (3 credits)
- PHYS 201 Phenomenal Science (3 credits)

1. Elementary, Early Childhood, or Elementary Special Education Option (19-20 credits)

CHEM 103/107 Fundamentals of Chemistry & Lab (4 credits)
- IDSM 301 The Web of Science I (3 credits)
- IDSM 401 The Web of Science II (3 credits)

Select three or more additional science courses (9-10 credits) at the 200 level or higher.

TEACHER CERTIFICATION REQUIREMENTS (40-55 CREDITS)

If you are pursuing teacher certification (i.e., B.S. Education with General Science as second major), see requirements for Elementary, Early Childhood, and/or Elementary Special Education options under Education major.

2. Middle School Option (14 credits plus specialization or minor)

- CHEM 111/115 General Chemistry I & Lab (4 credits)
- CHEM 112/116 General Chemistry II & Lab (4 credits)
- MATH 141 Introductory Statistics (3 credits)
- PHYS 210 History of Science (3 credits)

In addition to the requirements listed above, complete either a specialization or a minor in Biology, Chemistry, or Geology.

a. Specialization

Complete three or more additional courses at the 200 level or higher in one of the following areas: Biology, Chemistry, or Geology.

b. Minor

Complete the remaining course requirements for a minor in Biology, Chemistry, or Geology.

Refer to the Minors section of the catalog for specific course requirements.

TEACHER CERTIFICATION REQUIREMENTS (37 CREDITS)

If pursuing teacher certification for Middle School General Science, the following courses are required:

Orientation

ESEC 100 Introduction to Teaching (1 credit)

Learners

ESEC 150 Development, Exceptionality, and Learning I (3 credits)
- ESEC 250 Development, Exceptionality, and Learning II (3 credits)

Fundamentals

ESEC 282 Literacy in Content Areas (3 credits)

Settings

ESEC 320 Educational Environments and Practices (3 credits)

Methodology

ESEC 384 Methods: Middle School (3 credits)
- ESEC 386 Methods: Field Experience (3 credits)

Pedagogy

ESEC 387 Creating Social Contexts for Learning (3 credits)

Systems

ESEC 450 Seminar: Educational Principles (3 credits)
Practice
ESEC 460 Student Teaching (12 credits)

ELECTIVES
Select additional courses, if necessary, to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits

Geography
Bachelor of Arts

Geography, an eclectic discipline dealing with the earth as the habitat of humans, provides a unique opportunity to learn about interactions between physical and cultural environments. For example, physical geography relies heavily on geology, meteorology, and oceanography. Human geography examines humanity’s adaptation to the constantly changing forces of nature, focusing on such issues as population distributions, technology, language, race, location theory, settlement patterns, economic patterns, and resource use systems. Cartography (mapping) is an indispensable tool of the discipline.

Employment opportunities are available for geographers in local, state, and federal agencies concerned with regional planning and environmental impact. Industry employs geographers as researchers, analysts, and consultants. Geography students who complete the teacher education option will be eligible for social studies certification.

The Geography major requires 36 credit hours of Geography courses. Up to three regional courses may be counted toward the major. One statistics course is required and may be used for general education requirements. Students considering graduate work in Geography should develop skills in computer science.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

Geography courses taken to satisfy General Education requirements may not apply toward the Geography major.

Geography majors preparing for certification as comprehensive Social Studies teachers must take the following courses in addition to the courses required for the Geography major. The additional courses may also count toward filling General Education requirements. (Note: New Hampshire has no certification to teach Geography only.)

HIST 161-162 Topics in U.S. History I and II, or
one course in HIST 360-363;
and one course in HIST 364-367.
HIST 111 Traditional World Civilization and
HIST 112 Modern World Civilization
ECON 201 Macroeconomics
POSC 201 Introduction to Political Science or
POSC 211 U.S. Politics
SOC 101 Introductory Sociology or
ANTH 110 Cultural Anthropology
PSYC 101 General Psychology

MAJOR REQUIREMENTS
36 credits

GEOG 203 Cultural Geography
GEOG 204 Physical Geography
GEOG 395 Seminar I
GEOG 495 Seminar II

One of the following regional courses:
GEOG 341 Geography of the United States (recommended for Teacher Certification)
GEOG 343 Geography of Canada
GEOG 345 Geography of Latin America
GEOG 347 Geography of Europe
GEOG 349 Geography of Asia
GEOG 351 Geography of Africa

One of the following geographic skills courses:
GEOG 323 Cartography and Surveying
GEOG 324 GIS: ARCVIEW
GEOG 325 Cartography and Computer Mapping
GEOG 326 GIS: IDRISI
GEOG 327 Introduction to Remote Sensing

One of the following systematic fields of geography:
GEOG 303 Political Geography
GEOG 305 Economic Geography
GEOG 307 Urban Geography
GEOG 330 Natural Resource Management
GEOG 332 Water Resource Geography
GEOG 405 Land Use Planning
GEOG 420 Environmental Assessment

One of the following:
MATH 141 Introductory Statistics
PSYC 251 Psychological Statistics

Electives in Geography or from the following list to bring the total to 36 credits:
GEOG 309 Geomorphology
MET 225 Meteorology
ANTH 110 Cultural Anthropology

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

For teacher preparation in Social Studies (secondary), the following courses are required (34 credits):
Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas*

Settings
ESEC 320 Educational Environment and Practices

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits

Geology
Bachelor of Science

Geology is the study of the Earth and its environs. It involves detailed consideration of planet Earth’s interior and its surface, as well as consideration of the hydrosphere, atmosphere, and setting in space. These studies are central to an understanding of the Earth’s past, present, and future environments and the interrelationship between Earth and humanity. Students graduating from this program are prepared for traditional positions with oil and mining companies, and state and federal geological surveys as well as positions in the rapidly growing fields of environmental geology, hydrogeology, resource planning, and engineering and consulting firms, or to enter graduate study. By completing the teacher education option, students are prepared for certification as Earth Science Education teachers in secondary schools.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

The following required courses in Biology, Chemistry, Mathematics, and Physics may apply toward the Sciences/

Mathematics component (D) of the General Education requirements or electives (III).

- BIO 151/152 Life: Diversity and Lab
- CHEM 111/115-112/116 General Chemistry I, II and Labs
- MATH 151 Calculus I
- PHYS 141, 142 College Physics I, II or
  - PHYS 241, 242 University Physics I and II
- Select one of the following:
  - MATH 141 Introductory Statistics
  - MATH 152 Calculus II
  - Any course in Computer Science

For teacher certification in Earth Science Education in grades 7-12, the following courses must be included in the General Education requirements:

- a U.S. History course in the Arts and Humanities component (B);
- a Geography course in the Social Sciences component (C).

MAJOR REQUIREMENTS
40 credits

- GEOL 201 Introductory Physical Geology or
  - GEOL 100/101 Perspectives of the Earth and Lab
- GEOL 202 Historical Geology
- GEOL 301 Mineralogy
- GEOL 302 Petrology
- GEOL 303 Structural Geology
- GEOL 305 Paleontology
- GEOL 306 Stratigraphy

- Four Geology courses (12 credits) at the 300-level or above.
  - ASTR 307 maybe used to satisfy part of this requirement.
  - A summer field course is recommended, especially for those planning graduate study.
- Select one of the following:
  - GEOG 323 Cartography and Surveying
  - GEOG 325 Cartography and Computer Mapping
  - GEOG 326 GIS: IDRISI
  - GEOG 327 Introduction to Remote Sensing
  - GEOL 206 Oceanography
  - MET 225 Meteorology

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

For teacher preparation in Earth Science Education (grades 7-12), the following courses are required (34 credits):

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas*
Settings
ESEC 320 Educational Environments and Practice

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
126 credits

Health Science
Bachelor of Science

Health Science is an interdisciplinary program comprising courses in Biology, Chemistry, Management, Exercise Science, Health Promotion, Health Fitness, Nutrition, and Substance Abuse and Addictions. The emphasis is on the prevention of physical and emotional distress and illness through the promotion of self-awareness and healthy lifestyle choice. All health science majors must complete the Health Science core, which focuses on both the science of health as well as the art of health promotion. Selecting one of three options completes the major: Health Promotion and Fitness, Nutrition, or Substance Abuse and Addictions. An application process is required for each of the options within Health Science. Specific requirements and standards are listed for each of the options.

MAJOR REQUIREMENTS
56 – 72 credits

Health Science Core (28 credits)
HLSC 101 Health and Wellness Trends and Issues (3 credits)
PE 201 Physiology of Exercise (3 credits)
HLSC 285 Health in Society (3 credits)
HLSC 318 Life Cycle Nutrition and Wellness (3 credits)
HLSC 319 Life Cycle Lab (1 credit)
HLSC 380 Alcohol: Model of Chemical Dependency (3 credits)
HLSC 385 Behavior Change Facilitation (3 credits)

HLSC 401 Health Promotion Methods (3 credits)
HLSC 402 Health Promotion Management (3 credits)
HLSC 495 Seminar: Health Science (3 credits)

1. Health Promotion and Fitness Option
(28 credits)
The Health Promotion and Fitness option prepares students for a variety of careers in health promotion, fitness, and wellness. Typical career opportunities include exercise physiologist and health promotion and health fitness specialists in worksite, community, commercial, and hospital-based sites.

All students in the Health Promotion and Fitness Program must demonstrate first aid and CPR competencies at the level of American Red Cross Standard First Aid and Adult CPR or take PE 191 during the freshman or sophomore year.

The application process for admission to the Health Promotion and Fitness Option occurs during the spring semester for freshmen and transfers. Each student should take the courses listed below during the first two semesters and apply to be admitted to the Health Promotion and Fitness Option. Enrollment in Health Science major courses will not be allowed if application has not been made. The review of applicants and notification of the results of this review will be made by the end of that semester. If a student is not accepted, s/he should schedule a consultation with one or more members of the Admissions Committee. During the conference, the student will be notified of any areas of deficiency that need to be addressed. Once admitted, the student must officially declare his or her major through the Elliot Center.

ADMISSION CRITERIA
Overall GPA of 2.5, major GPA of 2.5, and C or better in the following Health Science course is required. For transfer students, an equivalent transferred course may be considered if approved by the Admissions Committee.
HLSC 101 Health and Wellness: Trends and Issues

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

COMM 171 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements.

PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements.

BIO 230/231 and 232/233 Human Anatomy and Physiology I, II and labs, and CHEM 103/107 Fundamentals of Chemistry & Lab are prerequisites for courses in the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements. The BIO
sequence should be started in the second semester of the freshman year.

**HEALTH PROMOTION & FITNESS OPTION REQUIREMENTS**

- PE 200 Applied Kinesiology (3 credits)
- PE 243 Resistance Training Program (1 credit)
- HLSC 214 Nutrition Fundamentals (3 credits)
- HLSC 330 Psychology of Health and Physical Activity (3 credits)
- HLSC 332 Fitness Testing (3 credits)
- HLSC 333 Exercise Programming (3 credits)
- HLSC 334 Group Fitness Leadership (1 credit)
- HLSC 372 Practicum: Health Promotion and Fitness (3 credits)
- HLSC 431 Stress Management (3 credits)
- HLSC 472 Advanced Practicum: Health Promotion and Fitness (3 credits)
- MGT 101 Introduction to Management (2 credits)

**ELECTIVES**

Select courses to reach a total of 126 credits for the degree.

**DEGREE REQUIREMENTS**

126 credits

2. Nutrition Option (44 credits)

The Keene State College Health Science/Nutrition Option is currently granted initial accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. The Nutrition Option provides the basic academic preparation necessary to become a registered dietitian (RD). Certification as an RD is often mandatory for professional positions and requires completion of an approved postgraduate supervised practice program.

Typically, a student who successfully completes the ADA-approved curriculum, an ADA-accredited internship or pre-professional practice program, and a registration examination becomes qualified as a health professional responsible for services in areas such as management, clinical or community dietetics, education, consultation, private practice, and research.

The application process for admission to the Nutrition Option occurs during the spring semester for freshmen and transfers. Each student should take the courses listed below during the first two semesters and apply to be admitted to the Nutrition Option. Enrollment in Health Science major courses will not be allowed if application has not been made. The review of applicants and notification of the results of this review will be made by the end of that semester. If a student is not accepted, s/he should schedule a consultation with one or more members of the Admissions Committee. During the conference, the student will be notified of any areas of deficiency that need to be addressed. Once admitted, the student must officially declare his or her major through the Elliot Center.

**ADMISSION CRITERIA**

Overall GPA of 2.7, major GPA of 2.7, and a C or better in the following Health Science course is required. For transfer students, an equivalent transferred course may be considered if approved by the Admissions Committee.

- HLSC 101 Health and Wellness: Trends and Issues

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 47 credits*

- COMM 171 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements.
- PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements.
- BIO 230/231 and 232/233 Human Anatomy and Physiology I, II and labs are prerequisites for courses in the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements. The BIO sequence should be started in the second semester of the freshman year.
- CHEM 111/115 and 112/116 General Chemistry I and II and lab are prerequisites for courses in the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

**NUTRITION OPTION REQUIREMENTS**

*Nutrition Courses (32 credits)*

- HLSC 150 Introduction to the Nutrition Profession (1 credit)
- HLSC 215 Nutrition Science and Application (3 credits)
- HLSC 216 Current Topics in Food Culture (4 credits)
- HLSC 217 Applied Nutrition Science Lab (1 credit)
- HLSC 310 Food Science (4 credits)
- HLSC 313/315 Foodservice Management/Lab (5 credits)
- HLSC 410 Experimental Foods (2 credits)
- HLSC 415 Nutritional Biochemistry (3 credits)
- HLSC 416/417 Medical Nutrition Therapy/Lab (5 credits)
- HLSC 419 Nutrition Research Lab (1 credit)
- HLSC 473 Practicum: Nutrition (3 credits)

*Allied Disciplines (12 credits)*

The following required courses are required for ADA certification:
BIO 153/154 Life: Processes and Lab (4 credits)
BIO 315 Clinical Microbiology (4 credits)
CHEM 220/224 Organic Chemistry and Lab (4 credits)

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

3. Substance Abuse/Addictions Option
(29 credits)
The Substance Abuse/Addictions Option at Keene State College specifically addresses the needs of public and private human service agencies. Such agencies utilize employees who can recognize chemical dependency issues, use available resources, and facilitate addressing chemical abuse-related problems in multiple settings.

Candidates for this degree and option often come to the program with a high level of interest in the helping professions.

This option provides study of a wide range of health issues as they relate to addictions and chemical dependency. It helps students develop skills that assist clients toward the primary goal of recognition and recovery.

Candidates develop practical skills in recognizing and evaluating chemical dependency indicators and how to treat the illness through various techniques.

Core courses are taught by full-time faculty of the Health Science Department who have professional field experience (or by practitioners from the community). An internship is required in the field of chemical dependency in the senior year. Work in this program may be applied toward becoming a New Hampshire-licensed Alcohol and Drug Abuse Counselor; however this process is pursued separately through the State Bureau of Substance Abuse Services in Concord.

The application process for admission to the Substance Abuse/Addictions Option occurs during the spring semester for freshmen and transfers. Each student should take the courses listed below during the first two semesters and apply to be admitted to the Substance Abuse/Addictions Option. Enrollment in Health Science major courses will not be allowed if application has not been made. The review of applicants and notification of the results of this review will be made by the end of that semester. If a student is not accepted, s/he should schedule a consultation with one or more members of the Admissions Committee. During the conference, the student will be notified of any areas of deficiency that need to be addressed. Once admitted, the student must officially declare his or her major through the Elliot Center.

ADMISSION CRITERIA
Overall GPA of 2.5, major GPA of 2.5, and a C or better in the following Health Science course is required. For transfer students, an equivalent transferred course may be considered if approved by the Admissions Committee.

HLSC 101 Health and Wellness: Trends and Issues

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

COMM 171 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements.

PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements.

BIO 230/231 and 232/233 Human Anatomy and Physiology I, II and labs, and CHEM 103/107 Fundamentals of Chemistry & Lab are prerequisites for courses in the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements. The BIO sequence should be started in the second semester of the freshman year.

SUBSTANCE ABUSE/ADDICTION
OPTION REQUIREMENTS
29 credits

HLSC 214 Fundamentals of Nutrition (3 credits)
HLSC 200 Alcohol and Other Drugs: The Fundamentals (3 credits)
HLSC 439 Internship in Health Science/Chemical Dependency (3 credits)
HLSC 486 Assessment, Diagnosis, and Counseling (3 credits)
HLSC 488 Addiction: Prevention to Treatment (3 credits)
HLSC 490 Advanced Special Topics in Chemical Dependency (6 credits)
MGT 101 Introduction to Management (2 credits)

Select an additional 6 credits from courses approved by advisor in areas of substance abuse and addictions

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits
History
Bachelor of Arts

As a field of study, history provides students with many of the necessary skills for a productive professional career and an intellectually fulfilling life. Toward these ends, the history major attempts to provide students with the ability to think and read critically and analytically; to form sound opinions and support them with logical arguments based on documentary evidence; to communicate ideas effectively; and to conduct historical research. The history major further attempts to provide students with a body of historical knowledge that will enable them to understand contemporary events of local, national and global importance, as well as to understand and appreciate the various cultures and civilizations that make up the world community. Above all, the history major helps to provide students with the means for life-long learning.

By combining the development of specific skills with the acquisition of a body of historical knowledge, the history major prepares students for successful careers in primary and secondary education (history and social studies); business and industry; and government service. The major also prepares students for graduate study in history, law, and other academic and professional fields.

Students majoring in history are required to complete 36 credit hours in history, 18 credits of which must be in one of the following areas of specialization: (1) U.S. History; (2) European History; (3) 19th-Century Studies; (4) 20th-Century Studies. At least 12 of the 18 credit hours toward the area of specialization must be at the 300 level (or higher). At least 3 of the 18 credit hours must be at the 400 level.

Students majoring in history must also complete History 200: Reading and Writing in History. Note: History 200 must be completed before any student (major or non-major) completes 13 credit hours in history.

Students who complete the teacher education option will be eligible for social studies certification.

Students of History are strongly advised to acquire reading proficiency in at least one foreign language. Reading knowledge of at least one foreign language is essential for all students who intend to apply to graduate school.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

History courses completed to fulfill major requirements may also count toward fulfillment of General Education requirements in Arts and Humanities.

History majors preparing for certification as comprehensive Social Studies teachers must complete one course in U.S. History and one course in non-U.S./World History, as well as the additional courses listed below. These additional courses may also count toward fulfillment of General Education requirements in Arts and Humanities.

- ECON 201 Macroeconomics
- GEOG 101 Introduction to World Geography or GEOG 105 Geography for Teachers
- SOC 101 Introductory Sociology or ANTH 110 Cultural Anthropology
- POSC 201 Introduction to Political Science or POSC 211 U.S. Politics
- PSYC 101 General Psychology

MAJOR REQUIREMENTS
36 credits

- 6 credits at the 100 level
- 9 credits at the 200 level, including History 200
- 15 credits at the 300 level
- 6 credits at the 400 level

18 credit hours must be completed in one of the following areas of specialization: (1) U.S. History; (2) European History; (3) 19th-Century Studies; (4) 20th-Century Studies. At least 12 of the 18 credit hours toward the area of specialization must be at the 300 level (or higher), and at least 3 of the 18 credit hours must be at the 400 level.

All history majors must complete 6 credit hours in non-U.S./non-European History.

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

For teacher preparation in Social Studies (secondary), the following courses are required (34 credits):

- Orientation
- ESEC 100 Introduction to Teaching

- Learners
  - ESEC 150 Development, Exceptionality, and Learning I*
  - ESEC 250 Development, Exceptionality, and Learning II

- Fundamentals
  - ESEC 282 Literacy in Content Areas*

- Settings
  - ESEC 320 Educational Environments and Practices
Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teacher

The following course is highly recommended:
Pedagogy
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits

Individualized Major
Bachelor of Arts or Bachelor of Science

An individualized major is composed of an interdisciplinary program of studies, appropriately designed (1) to enhance the student’s ability to integrate and synthesize content and/or method from two or more academic disciplines and (2) to satisfy an individual student’s educational interests or career objectives. It must be identified by a title and list of courses that differ from all existing undergraduate majors currently offered by the college. The application must be completed and submitted prior to approval by the Associate Vice President for Academic Affairs. Approval must occur at least three weeks prior to registration for the semester during which the individualized major is to be declared.

4. Copies of the approved proposal will be distributed to the student, each member of the advisory committee and the Registrar. The original will be retained in the Office of the Associate Vice President for Academic Affairs.

B. COMPLETING AND/OR MODIFYING
THE INDIVIDUALIZED MAJOR:
1. The student is responsible for (a) completing all General Education Requirements, (b) progressing through the Individualized Major program as approved by the advisory committee and the associate vice president for Academic Affairs, and (c) enrolling in sufficient electives to fulfill credit requirements for the degree.

2. All changes to the Individualized Major must be co-signed by the advisory committee members and approved by the associate vice president for Academic Affairs. These amendments must be in writing and accompanied by an appropriate rationale.

Each program of study is divided into General Education requirements, the major, and electives. Individualized Major forms are available in the Office of the associate vice president for Academic Affairs and the Academic Advising Center.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

Established by the College, the General Education requirements are the same for all bachelor's degree programs. These requirements seek to broaden, deepen, and integrate understanding of the most significant aspects of humanity’s heritage. They also enhance the student’s capacity for aesthetic enjoyment, critical thinking, creativity, abstract and logical reasoning, and oral and written communication. It is also recommended that students develop competence in a second language, acquire or enhance computer literacy, select an experiential learning opportunity in which discipline-based knowledge can be applied in a real-life setting, and continue their general education throughout the bachelor’s degree program. All students are urged to complete at least one interdisciplinary course approved for such purposes by the College Senate Curriculum Committee.

MAJOR REQUIREMENTS
(minimum) 36 credits

Whereas major requirements are usually established by the academic discipline, the Individualized Major program of studies is designed by the student in consultation with an advisory committee, subject to approval by the associate vice president for Academic Affairs.

An Individualized Major:
1. Must consist of at least 36 credits, of which 18 must be numbered 300 or above.
2. Must include courses from a minimum of two academic disciplines. Two disciplines in the major must consist of a minimum of 15 credits each.

3. May include up to 15 credits of Independent Study courses (498).

**ELECTIVES**
Select courses to reach a total of 120 credits for a BA and 126 credits for a BS. Selected by the student, elective courses are usually related to personal and professional interests.

**DEGREE REQUIREMENTS**
120-126 credits
All bachelor’s degrees require a minimum of 120 credits. Normally, a BA totals 120 credits and a BS 126 credits.

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**Journalism**

**Bachelor of Arts**
This major is a career program emphasizing the building of skills and the mastering of concepts related to the news media. The program prepares students for careers as writers, reporters, or editors for newspapers, magazines, and electronic and online media.

The curriculum covers the skill areas of journalistic writing, editing and broadcast journalism. It includes (1) at least 27 credit hours of study within Journalism and (2) a minor selected in consultation with an academic advisor.

A grade of C or better must be earned in each Journalism course or Journalism course substitution counted toward the major.

This program provides a survey of the symbolic systems of print and broadcast media and exploration of one of these systems in depth.

**LANGUAGE REQUIREMENT**
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

**GENERAL EDUCATION REQUIREMENTS**
(minimum) 43 credits

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**MAJOR REQUIREMENTS**
45-54 credits
JRN 200 Introduction to Mass Media
JRN 201 News Writing I—Introductory
JRN 270-282 Journalism Lab (minimum 2 semesters)
JRN 290 Topics in Mass Media
JRN 317 Journalism Research Methods
Select one of the following:
  - JRN 310 Media History and Theory
  - JRN 322 Media Ethics
Select one of the following:
  - JRN 301 News Writing II - Reporting
  - JRN 302 Broadcast Journalism
Select two of the following:
  - JRN 306 News Editing
  - JRN 308 Radio Journalism
  - JRN 315 Television News Studio
  - JRN 401 Feature Writing
  - JRN 408 Television Journalism
  - JRN 410 Public Affairs Reporting
  - JRN 446 Community Television News
Select a minor in consultation with a Journalism academic advisor.

**ELECTIVES**
Select courses to reach a total of 120 credits for the degree.

**DEGREE REQUIREMENTS**
120 credits

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**Management**

**Bachelor of Science**
This career-oriented program, emphasizing management skills and building on a solid foundation in the liberal arts and sciences, is designed to prepare individuals for management careers in industrial or public organizations and for graduate work.

The Management curriculum develops an analytical and integrative viewpoint toward management through study in the humanities and social sciences. It provides a broad conceptual framework within which a manager will be able to develop alternative approaches to attaining given goals. Students develop the strong administrative, quantitative, and communications skills that modern managers must possess.
COMPETENCIES IN WRITING, SPEAKING, ECONOMICS, AND STATISTICS
The writing competence requirement is met by satisfactorily completing ENG 101 Essay Writing. The Management faculty strongly recommend, but do not require, ENG 202 Expository Writing. The speaking competence requirement is met by satisfactorily completing COMM 171 Fundamentals of Speech. The economics competence requirement is met by completing ECON 201 Macroeconomics and ECON 202 Microeconomics. Computer Science 101 Introduction to Computer Information Processing is required. MATH 102 Mathematics for Management is required for students with deficiencies in math as assessed by the Management department and the Math Center. Students interested in pursuing a Master of Business Administration degree are encouraged to take MATH 141 Introductory Statistics.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Courses in English and Communication may apply toward the Arts and Humanities component (B); courses in Economics may apply toward the Social Sciences component (C); courses in Computer Science and Mathematics may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

MAJOR REQUIREMENTS
44 credits
MGT 101 Introduction to Management (2 credits)
MGT 202 Quantitative Decision Making
MGT 213 Financial Accounting
MGT 214 Managerial Accounting
MGT 301 Organizational Theory and Behavior
MGT 319 Financial Management
MGT 331 Principles of Marketing
MGT 381 Management Information Systems
MGT 451 Social, Legal, and Political Environment of Business
MGT 491 Business Policy and Strategy
MGT electives (6 credits at 300 or 400 level)
A maximum of 2 credits can be taken from either Independent Study, Internship, or Cooperative Education.

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Mathematics
Bachelor of Arts
The Bachelor of Arts in Mathematics provides a broad mathematical foundation for work in related areas such as economics or science, for teaching, or for graduate work.

A decision to undertake a Mathematics major should be made no later than the beginning of the sophomore year if the program is to be completed in four years. Students entering as Mathematics majors should take MATH 151 Calculus I as soon as possible.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
CS 140 and PHYS 241 are required for the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

For teacher preparation in this major, refer to the Teacher Education Programs section of this catalog for courses that must be included in general education.

MAJOR REQUIREMENTS
(41 or 42 credits depending on program selected which includes 17 credits from the core courses and 24 or 25 credits from the program options)
All students must complete the core courses and select one of the program options.

Core Courses
*MATH 141 Introductory Statistics
MATH 151, 152 Calculus I, II
MATH 225 Introduction to Abstract Math
MATH 231 Linear Algebra
*This requirement can be fulfilled by completing PSYC 251.

1. Pure Math Option
(recommended for students intending graduate work in mathematics)
MATH 251 Calculus III
MATH 331 Modern Algebra
MATH 351 Intermediate Analysis
Two mathematics electives at the 230 level or higher.
Three mathematics electives at the 305 level or higher.

2. Applied Math Option
MATH 251 Calculus III
MATH 265 Mathematical Modeling
MATH 331 Modern Algebra
MATH 341 Mathematical Probability
MATH 361 Differential Equations
Select one of:
   MATH 242 Applied Statistics
   MATH 260 Numerical Methods

Select two of:
   MATH 342 Mathematical Statistics
   MATH 453 Complex Variables
   MATH 468 Intro to Applied Math

The following options are for students who intend to teach in K-12 settings:

3. Secondary Option
   MATH 251 Calculus III
   MATH 265 Mathematical Modeling
   MATH 310 History of Mathematics
   MATH 320 Geometry
   MATH 331 Modern Algebra
   MATH 341 Mathematical Probability
   MATH 351 Intermediate Analysis
   MATH 475 Issues and Trends in Math Education

4. Middle/Junior High Option
   MATH 235 Discrete Mathematics
   MATH 275 Geometry for K-9 Teachers
   MATH 310 History of Mathematics
   MATH 371 Math Concepts for the Middle School
   MATH 475 Issues and Trends in Math Education
   At least one of:
      MATH 320 Geometry
      MATH 331 Modern Algebra
      MATH 337 Number Theory
   Two mathematics electives (minimum 6 credits) at the 200/300 level plus appropriate certification courses

5. Elementary Option
   MATH 235 Discrete Mathematics
   MATH 275 Geometry for K-9 Teachers
   MATH 310 History of Mathematics
   MATH 475 Issues and Trends in Math Education
   At least one of:
      MATH 320 Geometry
      MATH 331 Modern Algebra
      MATH 337 Number Theory
   Three mathematics electives (minimum 9 credits) at the 200/300 level plus appropriate certification courses

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

For teacher preparation in Mathematics (secondary), the following courses are required (34 credits):

Orientation
   ESEC 100 Introduction to Teaching

Learners
   ESEC 150 Development, Exceptionality, and Learning I*
   ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
   ESEC 282 Literacy in Content Areas*

Settings
   ESEC 320 Educational Environments and Practices

Methodology
   ESEC 385 Methods: Secondary
   ESEC 386 Methods: Field Experience

Systems
   ESEC 450 Seminar: Educational Principles

Practice
   ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
   ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits

Mathematics-Physics

Bachelor of Science

This interdisciplinary program provides sufficient groundwork in both mathematics and physics for employment in industry or further study in graduate school.

Students who are interested in an engineering degree may elect this program, complete major requirements within three years, transfer to an engineering school of choice, and be awarded both the B.S. in Math-Physics from Keene State and the appropriate engineering bachelor’s degree.

The program is comprised of 21 credits of Mathematics, 22 credits of Physics, and 3 credits of Computer Science.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

CS 140, PHYS 241 and one of the 8-credit required sequences in BIO 151/152-153/154, CHEM 111/115-112/116, or GEOL 201-202 may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

MAJOR REQUIREMENTS
47 credits

CS 140 Computer Programming I
   MATH 151, 152, 251 Calculus Sequence
   MATH 231 Linear Algebra
   MATH 361 Differential Equations
MATH 468 Introduction to Applied Mathematics
PHYS 241, 242, 245 University Physics I, II, III
PHYS 260 Electronics
PHYS electives (6 credits, 300-level or higher)

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Music
Bachelor of Arts

This program provides a broad foundation in music and is also appropriate for students planning on graduate study. Five specializations are available: Composition, History and Literature, Music for Elementary Teachers, Music Technology, and Theory.

A grade of C or better must be earned in each music course counted toward the major.

Following an audition for acceptance into the Music degree program, the choice of specialization is determined in consultation with a Music faculty advisor, but all students should begin the theory/aural-skills sequence in the first year.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

MAJOR REQUIREMENTS
45-50 credits

Core (33 credits)
MU 100 Music Workshop (four semesters)
MU 101, 102, 201, 202 Applied Music (1 credit each)
MU 114 Music Cultures of the World
MU 118, 119 Functional Piano I, II (2 credits each)
Piano majors substitute four semesters (1 credit each) of MU 181 Accompanying

MU 151, 152, 251, 252 Music Theory I-IV (2 credits each)—Students who do not pass the theory placement test given at the time of their audition are advised to seek a private tutor to eliminate this deficiency before starting the sequence of theory classes.
MU 161, 162, 261, 262 Aural Skills I-IV (1 credit each)
MU 172, 173, 174, 177, or 178 Ensembles (1 credit each, total 4 credits)
MU 310 Western Music Before 1750
MU 312 Western Music After 1750

Specialization (select one):

COMPOSITION (14 credits)
MU 211 Intro to Electronic Music (2 credits)
MU 213 Composition I (2 credits)
MU 214 Composition II (2 credits)
MU 301, 302, 401 Applied Composition (2 credits each)
MU 405 Counterpoint (2 credits)
A student completing the Composition specialization is encouraged to consider the following courses as potential open electives:
MU 222 Musical Improvisation (1 credit)
MU 223 String Methods I (1 credit)
MU 225 Brass Methods I (1 credit)
MU 227 Woodwind Methods I (1 credit)
MU 229 Percussion Methods I (1 credit)
MU 315 Conducting I (2 credits)
MU 486 Twentieth-Century Music

HISTORY AND LITERATURE (12 credits)
MU 486 Twentieth-Century Music
Select 9 credits from the following:
MU 112 Latin American Music
MU 115 Women in Music
MU 212 Music in America
MU 218 History of Jazz
MU 222 Musical Improvisation (1 credit)
MU 235 Performance Literature (2 credits)
MU 405 Counterpoint (2 credits)

MUSIC FOR ELEMENTARY TEACHERS (12 credits)
MU 207 Teaching Music to Children
Select nine credits from the following:
MU 105 Voice Class (1 credit)
MU 110 Guitar Class (1 credit)
MU 112 Latin American Music
MU 115 Women in Music
MU 212 Music in America
MU 218 History of Jazz
MU 222 Musical Improvisation (1 credit)
MU 498 Independent Study (1-6 credits)

MUSIC TECHNOLOGY (13-17 CREDITS)
MU 211 Introduction to Electronic Music (2 credits)
MU 213 Composition I (2 credits)
MU 214 Composition II (2 credits)
MU 411 Electronic Music Projects (1 credit each, total 3 credits)
MU 497 Internship in Music Technology (1-4 credits)
*Technology Electives from CS, FILM, TAD (3-4 credits)
*May be applied to General Education

THEORY (12 CREDITS)
MU 404 Analytical Techniques (2 credits)
MU 405 Counterpoint (2 credits)
MU 486 Twentieth-Century Music
Select 5 credits from the following:
  MU 211 Intro to Electronic Music (2 credits)
  MU 213 Composition I (2 credits)
  MU 214 Composition II (2 credits)
  MU 222 Musical Improvisation (1 credit)
  MU 498 Independent Study (1-6 credits)

ELECTIVES
Select courses to reach a total of 120 credits for the degree. Electives must include 12 credits outside of Music.

DEGREE REQUIREMENTS
120 credits

Music Education
Bachelor of Music

The Music Education curriculum prepares teachers and supervisors of music for kindergarten through grade 12. This major presupposes a high level of interest in and aptitude for music. An audition is required before admission to the program. Upon entering the program, students declare a primary instrument or voice. All students must pass a basic piano skills test before the end of the sophomore year or they will not be permitted to enroll in junior year courses in Music Education. Students must work closely with their advisors in planning for completion of this tightly structured program.

Fourteen credits in Applied Music, including a 30- to 40-minute senior recital, must be in the primary instrument or voice, and must be completed before student teaching. Participation in at least one large ensemble appropriate to the student’s program (chosen from MU 172, 173, 174, 177, 178) is required each semester of applied music study, with the exception of the semester of student teaching.* Any further exceptions require the approval of the student’s advisor, the ensemble director, and the Music faculty.

A grade of C or better must be earned in each Music course counted toward the major.

*Pianists/organists may substitute up to two semesters of MU 171 for these ensembles.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this Catalog.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
MU 114 Music Cultures of the World is required and will apply toward the Arts and Humanities component (B) of the General Education requirements. For teacher certification in Music (K-12), the following courses must be included in the General Education requirements: a U.S. History course in the Arts and Humanities component (B) and a Geography course in the Social Sciences component (C).

MAJOR REQUIREMENTS
96 credits

Teacher Education
25 credits
For teacher preparation in Music Education (K-12) the following courses are required:

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
This part of the knowledge base is taken within Music
(MU 151, MU 152, MU 251, MU 252, MU 161, MU 162, MU 261, MU 262)

Settings
This part of the knowledge base is taken within Music
(MU 357, MU 358, MU 360)

Methodology
This part of the knowledge base is taken within Music
(MU 357, MU 358, MU 360)

Pedagogy
ESEC 387 Creating Social Contexts for Learning

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

*Course requires a minimum of one to three hours of field work in the schools or service learning.
Music Courses
71 credits
MU 100 Music Workshop (7 semesters)
MU 101, MU 102, MU 201, MU 202, MU 301, MU 302, MU 401 Applied Music (2 credits each)
MU 114 Music Cultures of the World (Applied to General Education)
MU 118 Functional Piano I (2 credits)
MU 119 Functional Piano II (2 credits)
(Piano majors substitute MU 181 Accompanying for MU 118 and MU 119) (Total 4 credits)
MU 151 Music Theory I (2 credits) *
MU 152 Music Theory II (2 credits)
MU 161 Aural Skills I (1 credit)
MU 162 Aural Skills II (1 credit)
MU 172, MU 173, MU 174, MU 177, or MU 178 Ensembles (7 credits)
MU 220 Technology for Music Educators (3 credits)
MU 222 Musical Improvisation (1 credit)
MU 223 String Methods I (1 credit)
MU 225 Brass Methods I (1 credit)
MU 227 Woodwind Methods I (1 credit)
MU 229 Percussion Methods I (1 credit)
MU 231 Guitar Methods
(Guitar majors substitute MU 326) (2 credits)
MU 251 Music Theory III (2 credits)
MU 252 Music Theory IV (2 credits)
MU 261 Aural Skills III (1 credit)
MU 262 Aural Skills IV (1 credit)
MU 310 Western Music Before 1750 (3 credits)
MU 312 Western Music After 1750 (3 credits)
MU 315, MU 316 Conducting I, II (2 credits each)
MU 357 General Music K-12 (4 credits) **
MU 358 Choral Music Education (2 credits) **
MU 360 Instrumental Music Education (2 credits) **

* Students who do not pass the theory placement test given at the time of their audition are advised to seek a private tutor to eliminate this deficiency before starting the sequence of theory classes.

**Student GPA must average 2.50 to qualify for student teaching.

SPECIALIZATION (select one)
6 credits from one specialization:
Instrumental
MU 105 Voice Class (1 credit)
MU 172 Concert Choir (1 credit)
MU 224 String Methods II (1 credit)
MU 226 Brass Methods II (1 credit)
MU 228 Woodwind Methods II (1 credit)
MU 230 Percussion Methods II
(Percussionists substitute a Music elective) (1 credit)
Choral
MU 101, MU 102, MU 201 Applied Music (or appropriate combinations of secondary applied music study totaling 3 credits)
MU 237 Vocal Pedagogy

DEGREE REQUIREMENTS
139 credits

Music Performance
Bachelor of Music
This major emphasizes performance proficiency and applied study of a major instrument or voice. It prepares students for careers in performance, independent teaching, or graduate study leading to the Master of Music degree.

Upon successful completion of an audition into the program, students declare a primary instrument or voice; 32 credits of Applied Music must then be taken in the primary instrument or voice. All students must pass a basic piano skills test before the end of the sophomore year or they will not be permitted to proceed with the junior recital. A 30- to 40-minute recital on the primary instrument in the junior year and a 60- to 70-minute recital in the senior year are required. Participation in at least one large ensemble appropriate to the student’s program (chosen from MU 172, MU 173, MU 174, MU 177, MU 178) is required each semester of applied music study.* Any exceptions require approval of the student’s advisor, the ensemble director, and the Music faculty.

A grade of C or better must be earned in each music course counted toward the major.

*Pianists/organists may substitute up to two semesters of MU 171 for these ensembles.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

GENERAL EDUCATION REQUIREMENTS (minimum) 43 credits

Two of the Humanities courses taken to satisfy the Arts and Humanities component (B) of the General Education requirements must be in Modern Languages for vocalists. Courses in Modern Languages are strongly recommended for instrumentalists.
MAJOR REQUIREMENTS
86 credits

MU 100 Music Workshop (8 Semesters)
MU 101, MU 102, MU 201, MU 202, MU 301, MU 302, MU 401 and MU 414 Applied Music (32 credits; primary instrument)
MU 101, MU 102, MU 201, MU 202, Applied Music (or appropriate combinations of secondary applied music study totaling 4 credits)
MU 114 Music Cultures of the World (3 credits)
MU 118 Functional Piano I (2 credits)
MU 119 Functional Piano II (2 credits)
(Piano majors substitute MU 181 Accompanying for MU 118 and MU 119 for a total 4 credits)
MU 151 Music Theory I (2 credits)*
MU 152 Music Theory II (2 credits)
MU 161 Aural Skills I (1 credit)
MU 162 Aural Skills II (1 credit)
MU 172, MU 173, MU 174, MU 177, or MU 178 Ensembles (8 credits)
MU 222 Musical Improvisation (1 credit)
MU 251 Music Theory III (2 credits)
MU 252 Music Theory IV (2 credits)
MU 261 Aural Skills III (1 credit)
MU 262 Aural Skills IV (1 credit)
MU 310 Western Music Before 1750 (3 credits)
MU 312 Western Music After 1750 (3 credits)
MU 315 Conducting I (2 credits)
MU 404 Analytical Techniques in Music (2 credits)
MU 486 20th-Century Music (3 credits)
Music Elective(s) (3 credits total)

*Students who do not pass the theory placement test given at the time of their audition are advised to seek a private tutor to eliminate this deficiency before starting the sequence of theory classes.

And:

VOCALISTS TAKE:
MU 237 Vocal Pedagogy
MU 238 Vocal Diction and Literature

INSTRUMENTALISTS TAKE:
MU 211 Introduction to Electronic Music (2 credits)
or MU 235 Performance Literature (Guitarists and pianists only – 2 credits)
MU 326 Applied Pedagogy (2 credits)

DEGREE REQUIREMENTS
127-129 credits

Physical Education
Bachelor of Science

This interdisciplinary program provides students with multidimensional preparation for a profession in physical education. All students are required to take the Physical Education Core. The major is completed by selecting one of the two options: Athletic Training or Teacher Certification. An application process is required for each option; each has specific requirements and standards. A decision to major in Physical Education should be made no later than the fall semester of the freshman year. For transfers and students who begin at a later time, two or more additional semesters can be expected.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

BIO 230/231 and BIO 232/233 Human Anatomy and Physiology I and II and labs are prerequisites for courses in the major for all Physical Education majors and may apply toward the Sciences/Mathematics component of the General Education requirements. The sequence should be started in the second semester of the freshman year.

All students majoring in Physical Education must also demonstrate math competency at the level of Intermediate Algebra and Trigonometry, or take Math 120 (Sciences/Mathematics component) during the freshman year.

Teacher Certification Option students must take CHEM 100 Introduction to Chemistry (as a prerequisite for BIO 230/231) as the required Physical Sciences course in the Sciences/Mathematics component.

Athletic Training Option students must take PSYC 101 General Psychology as part of the Social Sciences component, and CHEM 103/107 as the required Physical Sciences course in the Sciences/Mathematics component.

For teacher preparation in the Teacher Certification Option of this major, the following courses must be included in the General Education requirements: One U.S. History course in the Arts and Humanities component and one course in Geography in the Social Sciences component.

MAJOR REQUIREMENTS
67-77 credits

Physical Education Core
(18 credits)

PE 100 Foundations of Physical Education
HLSC 101 Health and Wellness: Trends and Issues
PE 200 Applied Kinesiology
PE 201 Physiology of Exercise
PE 240 Advanced First Aid
PE 460 Measurement and Evaluation in Physical Education

1. Athletic Training Option (49 credits)
The Athletic Training Option is a CAAHEP (Commission on Accreditation of Allied Health Education Programs)-accredited undergraduate athletic training education program. Students who graduate with a Physical Education Major/Athletic Training Option are eligible to take the NATA (National Athletic Trainers Association) Certification Examination for Athletic Training. The program prepares students for athletic training positions in educational and clinical settings and for graduate programs in Sports Medicine/Athletic Training, Exercise Physiology, and Biomechanics. The academic program is highly structured and requires that students begin major course work during their first semester of attendance at Keene State College. Transfers and other students who begin the option at the sophomore or junior year should plan to stay an additional one to three semesters beyond the traditional four-year schedule to complete the program. Any student who competes in a varsity or club sport will not be able to complete the Athletic Training Option because of the conflict of practice times and required athletic training internship hours. Freshmen who intend to apply to this option must enroll in PE 140 Introduction to Athletic Training for the spring semester. Transfers with more than 30 credits who intend to apply to this option must enroll in PE 140 Introduction to Athletic Training for the fall semester.

The application process for admission to the Athletic Training Option begins the first week of fall semester for transfers and the first week of the spring semesters for freshmen. Review of applicants and official notification of the results of this review occur during the spring semester for transfers and during the summer for freshmen. When a student is not accepted, a consultation will be scheduled with one or more members of the Admissions Committee. During the conference, the student will be notified of any areas of deficiency which need to be addressed. The student will be eligible to reapply for admission during the next year’s admission period.

ADMISSION CRITERIA:

a. Overall GPA of 2.5; Major GPA of 2.5.

b. A performance evaluation by the clinical supervisors in the Athletic Training Option based on one semester with a minimum of 50 hours of clinical experience in the Keene State College Training Room.

c. Successful completion of required competencies including specified rehabilitation protocols, taping/wrapping techniques, and training room procedures.

d. Recommendation for admission by two Physical Education faculty, one of whom must be a clinical supervisor in the Athletic Training Option.

RETENTION STANDARDS
Admission to PE 493 Externship: Athletic Training: Students are required to submit letters of intent to register for this course following completion of courses leading up to and including fall semester junior-level courses in the Physical Education major/Athletic Training Option. The following criteria will be used:

Completion of a minimum of 75 credits.

Completion of the Athletic Training Option courses listed below with a C or better:
PE 140 Introduction to Athletic Training
PE 240 Advanced First Aid
PE 241 Mechanics of Taping Techniques
PE 243 Resistance Training Programs
PE 246 Clinical Palpation
PE 340 Athletic Training I
PE 341 Techniques of Manual Testing
PE 342 Therapeutic Modalities
PE 343 Clinical Exercise Therapy
PE 344 Sports Nutrition
PE 383 Internship: Athletic Training (6 credits)
PE 440 Athletic Training II
PE 441 Athletic Training III
PE 483 Adv. Internship: Athletic Training (3 credits)

Completion of major requirements with a GPA of 2.5.
Cumulative GPA of 2.5.

Transcripts will be reviewed prior to placing students. Deadlines for application are February 15 for the Fall Semester and September 15 for the Spring Semester.

TECHNICAL STANDARDS FOR ADMISSION
The Athletic Training Option is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Option 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 (CAAHEP). The following abilities and expectations must be met by all students admitted to the Athletic Training Option. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

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

Candidates for selection to the Athletic Training Option must demonstrate:
1. the mental capacity to assimilate, analyze, synthesize, and integrate concepts and problem-solve to formulate assessment and therapeutic judgments and distinguish deviations from the norm.

2. sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques and to accurately, safely, and efficiently use equipment and materials during the assessment and treatment of patients.

3. the ability to understand and speak the English language at a level consistent with competent professional practice.

4. the 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, the ability to establish rapport with patients and communicate judgments and treatment information effectively.

5. the ability to record the physical examination results and a treatment plan clearly and accurately.

6. the capacity to maintain composure and continue to function well during periods of high stress.

7. the perseverance, diligence, and commitment to complete the athletic training education program as outlined and sequenced.

8. the flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.

9. the affective skills and appropriate demeanor and rapport relating to professional education and quality patient care.

**ATHLETIC TRAINING OPTION REQUIREMENTS**

- PE 140 Introduction to Athletic Training
- PE 240 Advanced First Aid
- PE 241 Mechanics of Taping Techniques
- PE 243 Resistance Training Programs
- PE 246 Clinical Palpation
- PE 340 Athletic Training I
- PE 341 Techniques of Manual Testing
- PE 342 Therapeutic Modalities
- PE 343 Clinical Exercise Therapy
- PE 344 Sports Nutrition
- PE 373 Practicum: Athletic Training (3 credits)
- PE 383 Internship: Athletic Training (6 credits)
- PE 440 Athletic Training II
- PE 441 Athletic Training III
- PE 443 Administration of Athletic Training
- PE 473 Advanced Practicum: Athletic Training (2 credits)
- PE 483 Advanced Internship: Athletic Training (6 credits)
- PE 493 Externship: Athletic Training (6 credits)

**ELECTIVES**

Select courses to reach a total of 126 credits for the degree.

**DEGREE REQUIREMENTS**

126 credits

2. **Teacher Certification Option (58 credits)**

This option is designed to prepare students to teach Physical Education in the public schools and meets all current requirements by the State of New Hampshire for certification in physical education, K-12.

The application process for admission to the Teacher Certification Option begins fall semester of the freshman year. The review of applicants and the official letter of notification of the results of this review would occur at the conclusion of the spring semester of the freshman year. If not accepted, the student will be eligible to reapply for admission during the next year’s admission period. Students applying must have completed PE 100 and PE 101/HLSC 101 from the PE Core and 4 credits of PE Major skills courses. Transfer students may be eligible to apply for admission after one semester at KSC, which must include a minimum of one course from the PE Core and 2 credit hours of PE Major skills coursework.

**ADMISSION CRITERIA**

Students must submit a portfolio as evidence of each of the following expectations:

**Personal Identity:** Biographical Information

**Program Planning and Academic Progress:** Overall GPA of 2.5, Major GPA of 2.5 and C or better in the following PE courses:
- PE 100 Foundations of Physical Education
- HLSC 101 Health and Wellness: Trends and Issues
- PE 278 Racquet Sports
- PE 286 Basketball
- PE 288 Soccer/Speedball

**Teaching Skills:** Demonstration of basic competencies in planning, instruction, and reflection.

**Professional Identity:** Documentation of progress in social and leadership skills, personal fitness, professional writing and professional expectations.

NOTE: Acceptance into Teacher Education is a separate process and is required of all students in the Teacher Certification Option. Refer to the Teacher Education/Certification Programs Section of this catalog or go to the Office of Teacher Education Programs for a ROUTE HANDBOOK which describes this process.
A. PHYSICAL EDUCATION COURSES (36 credits)
PE 250-290 Skills and Techniques: 18 credits in the following courses, which must be taken in sequence as follows:

Freshman Year:
PE 260 Total Fitness and Conditioning (Fall)
PE 288 Soccer/Speedball (Fall)
PE 278 Racquet Sports (Spring)
PE 286 Basketball (Spring)

Sophomore Year:
PE 255 Developmental Movement (Fall)
PE 285 Volleyball (Fall)
PE 287 Softball (Fall)
PE 261 Fitness Curriculum for K-12 Learners (Spring)
PE 283 Gymnastics (Spring)

Junior Year:
PE 265 Secondary Activities (Fall)
PE 282 Track and Field (Fall)
PE 256 Rhythms (Spring)
PE 268 Outdoor Skills (Spring)
PE 360 Teaching Physical Education
PE 361 Adapted Physical Education
PE 362 Administration of Physical Education Programs
PE 375 Practicum: Teaching-Elementary (3 credits)
PE 376 Practicum: Teaching-Secondary (3 credits)

B. TEACHER EDUCATION (25 credits)
For teacher preparation in Physical Education (K-12) the following courses are required:

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
This part of the knowledge base is taken within Physical Education.
(PE 100, PE 200, PE 201)

Settings
This part of the knowledge base is taken within Physical Education.
(PE 100, PE 360, PE 361, PE 362, PE 375, PE 376)

Methodology
This part of the knowledge base is taken within Physical Education.
(PE 360, PE 375, PE 376)

Pedagogy
ESEC 387 Creating Social Contexts for Learning

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 465 Student Teaching: Elementary (6 credits)
ESEC 465 Student Teaching: Secondary (6 credits)
*Course requires a minimum of one to three hours of field work in the schools or service learning.

ELECTIVES
Select courses to reach a total of 126 credits for the degree

DEGREE REQUIREMENTS
126 credits

Physical Science
Bachelor of Arts
The Bachelor of Arts in Physical Science provides the student seeking Certification in Physical Science Education (Grades 7-12) with a broadly based foundation in the physical sciences which addresses national, regional, and state recommendations for improving physical science education and meets state standards for teaching certification.

Students selecting this program must satisfy all criteria for admission to teacher education/certification and plan accordingly. Please refer to the Teacher Education/Certification Programs section of this catalog.

Students selecting this program should be aware that satisfactory completion of all required courses, including courses in science and courses in education, is required to earn the degree.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
GEOG 204 (Physical Geography) is required and may apply toward the Social Sciences component (C) of the General Education requirements.

MATH 141, 151 are required and may apply toward the Sciences/Mathematics component (D) of the General Education requirements. The Physical Science requirement is satisfied by the major.

MAJOR REQUIREMENTS
78-79 credits (includes Teacher Education)
CHEM 111/115 and CHEM 112/116 General Chemistry I, II and Labs
CHEM 220/224 Fundamental Organic Chemistry and Lab
CHEM 251/255 Quantitative Analysis and Lab  
PHYS 141 and PHYS 142 College Physics I & II  
PHYS 210 History of Science  
ASTR 307 University Astronomy  
MET 225 Meteorology  
GEOL 201 Introductory Physical Geology  
GEOL 202 Historical Geology or GEOL 206 Oceanography  
Biology (3 elective credits)  

TEACHER EDUCATION  
34 credits  
The education core for teacher preparation in physical science consists of the following required courses:  
**Orientation**  
ESEC 100 Introduction to Teaching  
**Learners**  
ESEC 150 Development, Exceptionality, and Learning I*  
ESEC 250 Development, Exceptionality, and Learning II  
**Fundamentals**  
ESEC 282 Literacy in Content Areas*  
**Settings**  
ESEC 320 Educational Environments and Practices  
**Methodology**  
ESEC 385: Methods: Secondary  
ESEC 386: Methods: Field Experience  
**Systems**  
ESEC 450 Seminar: Education Principles  
**Practice**  
ESEC 460 Student Teaching  
*Course requires a minimum of one to three hours of field work in the schools or service learning.  

ELECTIVES  
Select courses to reach a total of 120 credits for the degree.  

DEGREE REQUIREMENTS  
120 credits

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**Psychology**  
**Bachelor of Arts**  
This major consists of 37 credits in Psychology. It provides an undergraduate program aligned with the four specializations most frequently stressed in graduate schools—Clinical Counseling Psychology, Developmental Psychology, Experimental Psychology, and Personality/Social Psychology.  

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**GENERAL EDUCATION REQUIREMENTS**  
(minimum) 43 credits  
One course in psychology may apply toward the Social Sciences component (C) of the General Education requirements, however, it may not count for both the Major and General Education requirements.  

**MAJOR REQUIREMENTS**  
37 credits  

**Admission to the Major**  
The application process for formal admission to the psychology major occurs during the first or second semester of the sophomore year, i.e., upon completion of PSYC 101, PSYC 251, and either PSYC 242 or PSYC 253. To be admitted to the major, the student must achieve a minimum GPA of 2.0 in these three courses and be in good academic standing with the College. Before declaring a psychology major, the student must submit a transcript showing his or her grades in these courses to a Psychology advisor for review. If the grade requirements are met, the advisor will sign the declaration of major form, formally admitting the student into the psychology program. Non-majors will not be allowed to enroll in PSYC 252 Research Methods in Psychology.  

**Psychology Core Courses**  
PSYC 101 General Psychology  
PSYC 251 Psychological Statistics*  
PSYC 252 Research Methods in Psychology  
PSYC 253 Brain and Behavior  
PSYC 254 Research Methods Lab  
PSYC 382 History and Systems of Psychology  
PSYC 495 Seminar  
*Students who have already completed MATH 141 may not take PSYC 251 for college credit. These students will use their grade in MATH 141 for admission to the major. Any of these students admitted to the major must take a 3-credit PSYC elective in place of PSYC 251 to fulfill the psychology major credit requirements.  

**Specializations**  
Select three courses from one of the following specializations (9 credits) and one course from each of the remaining three (9 credits):  

A. **CLINICAL COUNSELING PSYCHOLOGY**  
PSYC 242 Personality  
PSYC 340 Psychological Testing  
PSYC 343 Humanistic and Transpersonal  
PSYC 345 Abnormal Psychology  
PSYC 444 Counseling  
PSYC 447 Clinical Psychology  

B. **DEVELOPMENTAL PSYCHOLOGY**  
PSYC 311 Child and Adolescent Psychology  
PSYC 314 Adulthood and Aging
At the end of the senior year each participant:
1. Submits a final written report on the Honors work for approval by his or her Honors Committee.
2. Presents the results of his or her work, and responds to questions about the project and its relationship to the larger body of psychological knowledge, in a Colloquium open to the public.
3. Immediately following the Colloquium, the student’s Honors Committee votes on whether or not to accept the Honors project.

Students successfully completing all facets of the Honors Program and having an average of 3.20 overall and 3.20 in Psychology will graduate with Honors in Psychology.

Safety Studies
Bachelor of Science

This major prepares students for a variety of safety and safety-related positions in industry and government. Emphasis is placed on employee protection and cost effectiveness. Graduates might work in such areas as loss control, risk management, institutional safety, and consulting.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits

CHEM 103/107 Fundamentals of Chemistry and Fundamentals of Chemistry Lab are prerequisites for courses in the major and may apply toward the Sciences/Mathematics component of the General Education requirements. They should be completed during the freshman or sophomore year.

MAJOR REQUIREMENTS
42 credits

Technology, Design and Safety Core (6 credits)
TDS 181 Safety Awareness (Safety majors must select TDS 181)
Select one of the following
TDS 100 Exploring Technology
TDS 140 Introduction to Visual Communication

Safety Foundation (9 credits)
TDS 284 Industrial Safety
TDS 380 Safety and Health Standards
TDS 381 Legal Aspects of Safety

Safety Electives (18 credits)
TDS 281 Introduction to Fire Science
TDS 286 Ergonomics
TDS 290 Special Topics
TDS 383 Hazardous Materials
TDS 387 Accident Investigation
TDS 482 Industrial Hygiene
TDS 487 System Safety
TDS 490 Advanced Special Topics
TDS 495 Seminar
TDS Elective

Management Electives (6 credits)
MGT 101 Introduction to Management
MGT 213 Financial Accounting
MGT 324 Human Resource Management

Safety Capstone Course (3 credits)
TDS 489 Organization and Administration of Safety Programs

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Social Science

Bachelor of Arts
This program provides a broad overview of several liberal arts and sciences. Among other purposes, it is useful as pre-law preparation and graduate work in the policy studies areas. This major also prepares students to be eligible for social studies teacher certification at the secondary level.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
Asterisked courses are required for the major, and may be applied toward the Arts and Humanities component (B) or the Social Sciences component (C) of the General Education requirements.

ARTS AND HUMANITIES
*HIST 161 Topics in U.S. History I
*HIST 162 Topics in U.S. History II

SOCIAL SCIENCES
*ECON 201 Macroeconomics
*PSYC 101 General Psychology
*POSC 201 Introduction to Political Science or
POSC 205 Understanding Political Science through Literature and Film
*SOC 101 Introductory Sociology

MAJOR REQUIREMENTS
36-39 credits in addition to required courses applied to General Education. Asterisked courses may be applied toward the Arts and Humanities component (B), or the Social Sciences component (C) of the General Education requirements.

Core (15-18 credits)
*HIST 111 World Civilization I
*HIST 112 World Civilization II
*ANTH 110 Cultural Anthropology or
ANTH 111 Archeology and Physical Anthropology
*GEOG 100 Introduction to Geography or
GEOG 101 Introduction to World Geography
SOSC 100 Foundations of Social Science
SOSC 495 Senior Seminar

Primary Specialization
12 additional credits (at least 9 of them at the 300-400 level) in one of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Psychology, or Sociology.

Secondary Specialization
9 additional credits (at least 6 of them at the 300-400 level) in another of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Psychology, or Sociology.

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

Teacher Preparation
For teacher preparation in Social Studies (secondary), the following courses are required (34 credits):

Orientation
ESEC 100 Introduction to Teaching

Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
ESEC 282 Literacy in Content Areas*

Settings
ESEC 320 Educational Environments and Practices

Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching
The following course is highly recommended:

**Pedagogy**

ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

**DEGREE REQUIREMENTS**

120 credits

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**Sociology**

*Bachelor of Arts*

Sociology searches in systematic ways for answers to questions about human social behavior. Sociologists study values, institutions, organizations, and other social forces that characterize a society. Sociologists also concentrate on how these social forces shape a person’s life. To study all of these factors, sociologists use a variety of scientific methods, such as surveys, interviews, observation, and historical analysis. By carefully collecting and analyzing this information, sociologists describe and explain how our social world works and how it influences our personal lives. This has turned sociology into a useful tool for solving social as well as personal problems. In fact, sociological research often helps public and private citizens to understand and solve problems that confront them on local, national, and international levels.

Sociology majors are employed by business, industry, and government in fields such as human and professional services, criminal justice and the law, marketing and advertising, demography and population studies, social research, medical and health-related areas, political and policy analyses, journalism and publishing, public opinion polling, education and training, family counseling, aging studies, not-for-profit community organizations, community relations, and union contract and negotiating.

This major consists of a minimum of 36 credit hours of Sociology courses.

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**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 43 credits*

Anthropology and Sociology courses taken to satisfy General Education requirements do not apply toward the Sociology major unless one is seeking a dual major or second degree.

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**MAJOR REQUIREMENTS**

36 credits

- SOC 101 Introductory Sociology
- ANTH 110 Cultural Anthropology
- SOC 203 Sociology Proseminar (1 credit)
- SOC 301 Sociological Research Methods (4 credits)
- SOC 303 Sociological Quantitative Analysis (4 credits)
- SOC 305 Sociological Theory

Select one course (3 credits):

- SOC 403 Community Research
- SOC 425 Topics in Ethnic Studies
- SOC 450 Mind, Self, and Society
- SOC 460 Topics in Popular Culture
- SOC 461 White Collar Crime
- SOC 472 Sociology of Health
- SOC 475 Social Stratification
- SOC 477 Sociology of Education
- SOC 480 Political Sociology
- SOC 490 Advanced Studies in Sociology

**SOCIOMETRY ELECTIVES**

15 credits

Fifteen credits in Sociology elective courses must be taken. Six credit hours of Anthropology classes can be used to satisfy this requirement. Please note that SOC 301 and 303 must be taken at Keene State College to count as core credit unless prior approval is given by the Sociology Department. For transfer students, course equivalency will be determined on a case-by-case basis by the department.

**ELECTIVES**

Select courses to reach a total of 120 credits for the degree.

**SOCIAL STUDIES TEACHER CERTIFICATION OF SOCIOLOGY MAJORS**

Sociology majors preparing for certification as comprehensive Social Studies teachers must take the following courses in addition to the courses required for the Sociology major. These additional courses may also count toward satisfying General Education requirements. (Note: New Hampshire has no certification to teach Sociology only.)

- HIST 161-162 Topics in U.S. History I and II or one course in HIST 360-363 and one course in HIST 364-369
- HIST 111 Traditional World Civilization
- HIST 112 Modern World Civilization
- ECON 201 Macroeconomics
- GEOG 101 Intro to World Geography or GEOG 105 Geography for Teachers
- POSC 201 Intro to Political Science or POSC 211 U.S. Politics
- PSYC 101 General Psychology
For teacher preparation in Social Studies (secondary), the following courses are required (34 credits):

**Orientation**
ESEC 100 Introduction to Teaching

**Learners**
ESEC 150 Development, Exceptionality, and Learning I *
ESEC 250 Development, Exceptionality, and Learning II

**Fundamentals**
ESEC 282 Literacy in Content Areas *

**Settings**
ESEC 320 Educational Environments and Practices

**Methodology**
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience

**Systems**
ESEC 450 Seminar: Educational Principles

**Practice**
ESEC 460 Student Teaching

The following course is highly recommended:

**Pedagogy**
ESEC 387 Creating Social Contexts for Learning

*Course requires a minimum of one to three hours of field work in the schools or service learning.

**DEGREE REQUIREMENTS**
120 credits

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**Spanish**
**Bachelor of Arts**

This major is designed for students wishing to prepare themselves to use Spanish actively in careers in business, government, social services, teaching or other fields.

The program emphasizes Hispanic culture and communication with Hispanic populations in the United States, Spain, and Latin America. Spanish majors are required to earn a minimum of 12 credits in at least one semester of study abroad, usually during their junior year. Students may take advantage of the College’s Direct Exchange program in Ecuador, or choose from among other approved programs in Spain or Latin America. Students planning to study in a Spanish-speaking country must consult with the National and International Exchange Office and Spanish faculty before program selection to arrange for program approval and transfer of credit.

New students will be assigned to the proper course on the basis of placement interviews with the Modern Language faculty. In general, however, students who have had no prior instruction or experience with a language should register for 101. Students with one or two years of successful high school study should register for 102. Students with three or more years should register for 201. Exceptions to these guidelines will be granted only by the Modern Language faculty.

For proper program advisement, potential majors should consult with a Spanish advisor upon admission to Keene State College.

**LANGUAGE REQUIREMENT**
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.

**GENERAL EDUCATION REQUIREMENTS**
(minimum) 43 credits

For teacher certification in Spanish (secondary), the following courses must be included in the General Education requirements: a U.S. History course in the Arts and Humanities component (B) and a Geography course in the Social Sciences component (C).

**MAJOR REQUIREMENTS**
47 credits

ML 101 The World of Language
SP 201-202 Intermediate Spanish I & II
SP 303 Introduction to Spanish Literature
SP 315 Conversation in Spanish
SP 316 Composition in Spanish
SP 330 Latinos in the U.S.
SP 350 Study in Spain or Latin America (minimum of 12 credits)
SP 405 Contemporary Spanish Usage or
SP 320 Commercial Spanish
SP 495 Senior Seminar-Spanish
Select two courses (6 credits) from the following:
GEOG 345 Geography of Latin America
ML 290 Selected Topics (when topic concerns Latin America, Caribbean or other Spanish-speaking cultures)
MU 112 Latin American Music

**ELECTIVES**
Select courses to reach a total of 120 credits for the degree.
For teacher preparation in Spanish (secondary), the following courses are required (34 credits):

Orientation
ESEC 100 Introduction to Teaching
Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II
Fundamentals
ESEC 282 Literacy in Content Areas*
Settings
ESEC 320 Educational Environments and Practices
Methodology
ESEC 385 Methods: Secondary
ESEC 386 Methods: Field Experience
Systems
ESEC 450 Seminar: Educational Principles
Practice
ESEC 460 Student Teaching
The following course is highly recommended:
Pedagogy
ESEC 387 Creating Social Contexts for Learning
*Course requires a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits

Technology Studies
Bachelor of Science

There are two options available: Architectural Technology, and Product Design and Development.

GENERAL EDUCATION REQUIREMENTS
(minimum) 43 credits
MATH 120 Applied Algebra and Trigonometry is required for the Sciences/Mathematics component (D) of the General Education Requirements.

MAJOR REQUIREMENTS
39-42 credits

Architectural Technology Option (39 credits)
Provides students with a broad foundation and the flexibility to concentrate in a particular area of interest. By taking additional courses in Art, Environmental Science, or Management, students may prepare for careers in architecture, engineering design, construction management, building sciences, or environmental design. The program emphasizes helping students become effective, creative problem solvers by first achieving a solid understanding of scientific and technical concepts as they relate to architectural technology and then experiencing increasing challenges in design. In the advanced courses, students have the opportunity to design solutions to real problems and to create projects that are actually constructed.

TECHNOLOGY, DESIGN AND SAFETY (TDS) CORE
(6 credits)
Select two of the following
TDS 100 Exploring Technology
TDS 140 Introduction to Visual Communication
TDS 181 Safety Awareness

ARCHITECTURAL TECHNOLOGY FOUNDATION
(15 credits)
TDS 175 Construction Materials and Processes
TDS 231 Introduction to Architectural Design
TDS 265 Energy and Sustainable Design
TDS 331 Intermediate Architectural Design
TDS 334 Collaborative Architectural Project

ARCHITECTURAL TECHNOLOGY ELECTIVES
(15 credits)
TDS 290 Special Topics
TDS 335 Architectural Systems
TDS 365 Solar Design
TDS 375 Construction Applications
TDS 406 Statics and Structural Analysis
TDS 436 Architectural Material Science
TDS 490 Advanced Special Topics

ARCHITECTURAL TECHNOLOGY CAPSTONE COURSE (3 credits)
TDS 434 Architectural Design Project

MINOR
Students are encouraged to complete a minor or an organized cluster of courses related to their career interest. Suggested areas are: Applied Computer Science, Management, Art, and Safety Studies.

Product Design and Development Option
(39 credits)
Designed for students interested in technical, scientific, supervisory, and/or managerial areas of industry. Laboratory-based instruction is used to reinforce theoretical concepts. The program’s flexible design allows students to customize a program to meet their career needs in CAD-CAM, product design, or electromechanical technologies. Graduates typically assume positions in planning, supply, production, quality control, product design/engineering/evaluation, technical services, marketing, and sales.
TECHNOLOGY, DESIGN AND SAFETY (TDS) CORE  
(6 credits)
Select two of the following:
- TDS 100 Exploring Technology
- TDS 140 Introduction to Visual Communication
- TDS 181 Safety Awareness

PRODUCT DESIGN AND DEVELOPMENT  
FOUNDATION (12 credits)
- TDS 101 Manufacturing Processes
- TDS 110 Electricity and Electronic Fundamentals
- TDS 152 Product Design I
- TDS 252 Product Design II

PRODUCT DESIGN AND DEVELOPMENT  
ELECTIVES (18 credits)
In consultation with a TDS advisor, students select courses of career interest to form a technical concentration. Possible focus areas include CAD/CAM, mechanical design, electromechanical technology, and product design.

Note: 12 credits must be at the 200 level or above.


PRODUCT DESIGN AND DEVELOPMENT  
CAPSTONE (3 credits)
- TDS 400 Manufacturing Enterprise
- TDS 452 Product Design IV

MINOR
Students are encouraged to complete a minor or an organized cluster of courses related to their career interest. Suggested areas: Applied Computer Science, Management, Art, and Safety Studies.

Technology Education Option (42 credits)
Provides students with an understanding of the technical, occupational, social, historical, and cultural aspects of industry and technology in order to become effective teachers of Technology Education. The curriculum includes clusters in Manufacturing Systems, Communication Systems, Energy, Power and Transportation Systems, and Construction Systems. Courses in general education, technology, and professional education are closely integrated to provide a balanced educational experience. Successful completion prepares students for Technology Education certification at the middle and secondary levels.

Students in the Architectural Technology Option and Product Design and Development Option are encouraged to pursue minors in Applied Computer Science, Management, Art, or Occupational Safety to supplement their career interests.

This program is currently under review. Consequently, there is an institutional hold on all admissions. Contact the Office of Professional and Graduate Studies for alternative ways to obtain certification in Technology Education.

ELECTIVES
Select courses to reach a total of 126 credits for the degree.

DEGREE REQUIREMENTS
126 credits

Theatre and Dance

Bachelor of Arts

Department of Theatre and Dance Mission Statement
The Department of Theatre and Dance is dedicated to providing a comprehensive course of study that balances theory and practice within a sound liberal arts education. Because of the collaborative nature of these disciplines, our students gain practical experience in all facets of production and critical engagement. As artists and teachers, our primary focus is to encourage and guide our students as they experience and question the world through theatre and dance.

The Theatre and Dance major balances theoretical and applied course work and gives students the opportunity to specialize in Acting/Directing, Dance, Design/Technical Theatre, or Critical Studies. The Acting/Directing option offers advanced performance work, with a four-semester core acting sequence as well as a wide variety of individual courses in special areas. The Dance option focuses primarily on modern dance technique and theory, dance history and performance. The Design/Technical Theatre option allows students to study design and theatre technology within the framework of both theoretical and practical courses, using the sophisticated facilities of the Redfern Arts Center on Brickyard Pond as a laboratory. The Critical Studies option focuses student study on theatre history, literature, and critical theory, emphasizing Theatre scholarship overall.

LANGUAGE REQUIREMENT
The student must demonstrate proficiency in a language other than English as specified by the Language Requirement for Students with Majors in the School of Arts and Humanities. The complete policy statement appears at the beginning of the Bachelor’s Degree Programs section of this catalog.
GENERAL EDUCATION REQUIREMENTS  
(minimum) 43 credits

TAD 101 Introduction to Theatre Arts is required and may apply toward the Arts and Humanities component (B) of General Education Requirements.

MAJOR REQUIREMENTS  
47-50 credits

Theatre and Dance Core (20 credits)
TAD 111 Theatre Movement or  
TAD 211 Modern Dance I  
TAD 121 Technical Theatre I  
TAD 122 Technical Theatre II  
TAD 123 Theatre Lab I (1 credit)  
TAD 124 Theatre Lab II (1 credit)  
TAD 162 Design for the Performing Arts  
TAD 201 Acting I  
TAD 495 Seminar

Curricular Options (select one)

ACTING/DIRECTING OPTION (30 credits; major total 50)
TAD 111 Theatre Movement or TAD 211 Modern Dance I  
(Tichever not taken in core)  
TAD 131 Western Theatre: Hist/Lit I  
TAD 132 Western Theatre: Hist/Lit II  
TAD 202 Acting II  
TAD 231 Western Theatre: Hist/Lit III  
TAD 282 Voice and Diction or  
TAD 303 Stage Directing  
TAD 297 Production Credit (1 credit minimum)  
TAD 298 Applied Performance (2 credits minimum)  
TAD 301 Acting III  
TAD 302 Acting IV or  
TAD 304 Directing Workshop  
TAD 495 Seminar

DANCE OPTION (27 credits; major total 47)
MU 104 Introduction to Music Masterworks  
TAD 212 Modern Dance II (students should take TAD 211 in core)  
TAD 235 Modern Dance History  
TAD 297 Production Credit (1 credit minimum)  
TAD 298 Performance Credit (2 credits minimum)  
TAD 318 Choreography and TAD 495 Seminar or  
TAD 318 twice

Select 9 credits from:  
TAD 311 Modern Dance III  
TAD 312 Modern Dance IV

DESIGN/TECHNICAL THEATRE OPTION (30 credits; major total 50)
TAD 131 Western Theatre: Hist/Lit I  
TAD 132 Western Theatre: Hist/Lit II  
TAD 222 Theatre Laboratory III (3 credits)  
Select 3 credits from:  
TAD 225 Costume Construction  
TAD 265 Rendering for the Theatre or  
TAD 364 Scene Painting  
TAD 227 Stage Management or  
TAD 303 Stage Directing  
TAD 231 Western Theatre: Hist/Lit III  
TAD 297 Production Credit (2 credits minimum)  
TAD 298 Applied Performance (1 credit minimum)  
TAD 361 Scenic Design or  
TAD 363 Costume Design  
TAD 362 Lighting Design  
TAD 495 Seminar

CRITICAL STUDIES OPTION (27 credits; major total 47)
TAD 131 Western Theatre: Hist/Lit I  
TAD 132 Western Theatre: Hist/Lit II  
TAD 202 Acting II  
TAD 231 Western Theatre: Hist/Lit III  
TAD 352 Studies in Critical Theory  
TAD 495 Seminar  
Three of the following; at least two must be at the 300 level:  
TAD 212 Modern Dance II  
TAD 235 Modern Dance History  
TAD 290 Special Topics  
TAD 303 Stage Directing  
TAD 304 Directing Workshop  
TAD 318 Choreography  
TAD 330 Playwriting  
TAD 361 Scenic Design  
TAD 362 Lighting Design  
TAD 363 Costume Design  
TAD 490 Special Topics  
TAD 498 Independent Study

ELECTIVES
Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS
120 credits
Minors

A minor is a coherent set of courses (normally 18-24 credits) in a discipline or related disciplines other than the major. The major includes, but is not limited to, required components such as option and specialization. A maximum of 9 credits used to complete major requirements may also be used to complete requirements for the minor.

American Studies Minor
21-24 credits
AMST 210 Introduction to American Studies
Select one of the following:
   AMST 250 Interpreting American Culture
   AMST 290 Special Topics (when appropriate)
   ENG 240 Readings in American Literature
   ENG 245 Readings in American Indian Studies
   ENG 280 Cultural Studies (when appropriate)
   ENG 290 Topics (when appropriate)
   ENG 341 Early American Literature
   ENG 342 19th Century American Literature
   ENG 345 Black American Literature
   ENG 347 Modern American Indian Literature
   ENG 370 Studies in Literature of the Americas
   ENG 381 Women Writers (when appropriate)
Select one of the following:
   AMST 390 Critical Approaches
   AMST 490 Advanced Special Topics
   AMST 495 Seminar (appropriate topic)
Area Studies (three courses)
Student selects two courses from one of the following areas, and one course from another of the following areas (refer to list of courses in American Studies Major):
   American Arts
   American History and Thought
   American Literature
   American Social Science

Courses used to satisfy requirements for the minor may also be used to satisfy General Education requirements when such courses meet the established criteria for General Education. Credits earned in courses used to satisfy multiple requirements will count once toward the total number of credits required for graduation.

Anthropology Minor
18 credits
This minor introduces the student to anthropology, the comparative and holistic study of people. It explores the biological, social, and cultural aspects of our species in the past, present, and future. Anthropology attempts to integrate knowledge of human beings and their activities at the highest and most inclusive level. Anthropologists study the patterning of human behaviors, as well as the conditions under which they arise, persist, or disappear, in the belief that the knowledge gained from this perspective may be applied to the solution of problems of everyday life in different cultures. It provides global information and thinking skills critical to succeeding in the 21st century in business, research, teaching, advocacy, and public service.

ANTH 110 Cultural Anthropology
ANTH 111 Archaeology and Physical Anthropology
ANTH 212 World Ethnography or ANTH 214 World Prehistory
ANTH 313 Anthropological Thought
Two 300- or 400-level ANTH electives, or
   one ANTH and one SOC elective at the 300-level or above.
Applied Computer Science Minor

26 credits

The growth of computer usage in society is expected to continue unabated for the foreseeable future. Well-educated as well as well-trained people will be needed. This minor enables liberal arts and sciences and professional studies students to add a career option to their bachelor’s degree programs.

CS 140 Computer Programming I (4 credits)
CS 160 Microcomputer Applications
CS 185 Computer Programming II (4 credits)
CS 205 Elementary Visual Basic
   or CS 220 COBOL
   or CS 265 Assembly Language
CS 280 Data Structures
CS Elective (300 level)
MATH 120 Applied Algebra and Trigonometry (Students with a strong mathematics background are advised to take MATH 130 or MATH 151 instead.)
MATH 141 Introductory Statistics*
*This requirement can be fulfilled by completing PSYC 251.

Art Minor

24 credits

ART 102 Two-Dimensional Design
ART 103 Three-Dimensional Design
ART 111 Introduction to Art
ART 125 Drawing I
ART 208 Ceramics I
ART 226 Painting I
ART 231 Printmaking I
One of the following Art History courses:
   ART 211 Ancient Art
   ART 212 Medieval Art
   ART 213 Renaissance and Baroque Art
   ART 214 19th and 20th Century Art
   ART 290 Topics in Art History

Biology Minor

24 credits

Designed to permit students majoring in another field to pursue a program of study in the life sciences, this minor includes a set of core courses that introduce the most important concepts in biology as well as upper-level electives dictated by the personal interests of the student.

Core (16 credits)
BIO 151/152 Life: Diversity and Lab
BIO 153/154 Life: Processes and Lab
BIO 252 Ecology and Evolution
One of the following three lecture courses:
   BIO 251 Genetics
   BIO 253 Physiology of Plants and Animals
   BIO 254 Cell Biology
One of the following three laboratory courses:
   BIO 255 Experimental Genetics
   BIO 256 Experimental Ecology and Evolution
   BIO 257 Experimental Physiology

Electives
8 Biology credits at the 300 level or higher

Chemistry Minor

23-28 credits

The Chemistry minor makes it possible for students to pursue their personal interests by selecting upper-level electives in Chemistry. It also permits students majoring in another field to pursue a program of study in the physical sciences.

CHEM 111/115-112/116 General Chemistry I, II and Labs
CHEM 220/224 Fundamental Organic Chemistry and Labor
   CHEM 221/225-222/226 Organic Chemistry I and II
CHEM 251-255 Quantitative Analysis and Lab
CHEM electives (6-7 credits at 300 level or above)

Communication Minor

21 credits

COMM 171 Fundamentals of Speech
PHIL 100 Logical Argumentation
COMM 175 Principles of Communication
COMM 275 Interpersonal Communication
Select three additional courses from:
   COMM 290 Special Topics
   COMM 371 Advanced Public Speaking
   COMM 375 Business and Professional Communication
   COMM 376 Theory of Communication and Rhetoric
Dance Minor
19 credits
TAD 211 or 212 Modern Dance I or II
TAD 318 Choreography or TAD 495 Dance Seminar
Select 9 credits from:
  TAD 212 Modern Dance II
  TAD 216 Jazz Dance
  TAD 311 Modern Dance III
  TAD 312 Modern Dance IV
  TAD 411 Modern Dance V
  TAD 412 Modern Dance VI
(TAD 212, 311, 312, 411, and 412 may be repeated once for credit)
Select 4 credits from:
  TAD 121/123 Technical Theatre I and Lab (4 credits)
  TAD 162 Design for Performing Arts (3 credits)
  TAD 235 Modern Dance History
  TAD 297 Production Credit (1 credit)
  TAD 298 Applied Performance (1 credit)

Economics Minor
21 credits
All minors will complete a three-course sequence that consists of ECON 201 and 202 (in either order) and 301 or 302. It is strongly recommended that students take 301 or 302 immediately after 201 and 202. In addition, minors will take one course that emphasizes either history (ECON 450 or 455) or critical studies (ECON 320, 350, or 375). Finally, the minor will complete three additional upper-level economics courses.

Mathematics competence at the level of MATH 141 Introductory Statistics is highly recommended.

English Minor
20 credits
This minor consists of five courses in English. Students must complete ENG 209 Literary Analysis, three literature courses at the 300 level, and one literature course at the 400 level.

Environmental Studies Minor
21-22 credits
This minor introduces students to the wide range of fields of environmental study.

ENST 100 Introduction to Environmental Studies
ENST 200 Intermediate Environmental Studies
Two of the following:
  ECON 340 Environmental Economics
  GEOG 330 Natural Resource Management
  POSC 332 Public Policy Analysis
Two of the following:
  BIO 252/256 Ecology and Evolution and lab
  CHEM 352/356 Environmental Chemical Analysis and lab
  GEOL 315 Environmental Geology

Film Studies Minor
24 credits
FILM 250 Film Production I
FILM 270 Introduction to Film Analysis
FILM 271 Introduction to Film History
FILM 352 Film Genres and Directors
FILM 355 Film Theory
FILM 495 Seminar

French Minor
20 credits
The French minor serves the needs of students who wish to acquire an active command of French while majoring in another subject. Natural combinations are French with Management, Computer Science, Industrial Chemistry, or Industrial Technology.

New students will be assigned to the proper course on the basis of placement interviews with the Modern Language faculty. In general, however, students who have had no prior instruction or experience with a language should register for 101. Students with one or two years of successful high school study should register for 102. Students with three or more years should register for 201. Exceptions
to these guidelines will be granted only by the Modern Language faculty.

ML 101 The World of Language  
FR 201–202 Intermediate French I & II  
FR 315 Conversation in French  
FR 316 Composition in French  
FR 405 Contemporary French Usage or  
FR 320 Commercial French

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**Geography Minor**  
*18-19 credits*

GEOG 203 Cultural Geography  
GEOG 204 Physical Geography  
One of the following regional courses:
  - GEOG 341 Geography of the United States  
  - GEOG 343 Geography of Canada  
  - GEOG 345 Geography of Latin America  
  - GEOG 347 Geography of Europe  
  - GEOG 349 Geography of Asia  
  - GEOG 351 Geography of Africa  
One of the following geographic skills courses:  
  - GEOG 221 Maps and Map Reading  
  - GEOG 323 Cartography and Surveying  
  - GEOG 325 Cartography and Computer Mapping  
  - GEOG 326 GIS: IDRISI  
  - GEOG 327 Introduction to Remote Sensing  
One of the following systematic fields of Geography:  
  - GEOG 303 Political Geography  
  - GEOG 305 Economic Geography  
  - GEOG 307 Urban Geography  
  - GEOG 330 Natural Resource Management  
GEOG Elective

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**German Minor**  
*18 credits*

This minor provides students with an active command of German. It is designed to complement any major. Recent minors have had majors in English, History, Management, Music, and ESEC. German minors may elect to study in Germany or Austria during their junior year through the Goethe Institute, the University of Maine’s Junior Year in Salzburg or other approved programs. Students planning to study in German-speaking countries must consult with the Office of International Education and German faculty before departure to arrange for program approval and transfer of credit.

New students will be assigned to the proper course on the basis of placement interviews with the Modern Language faculty. In general, however, students who have had no prior instruction or experience with a language should register for 101. Students with one or two years of successful high school study should register for 102. Students with three or more years should register for 201. Exceptions to these guidelines will be granted only by the Modern Language faculty.

ML 101 The World of Language  
GER 131 Germany Today or  
  HIST 352 20th Century Germany or  
  HIST 353 Nazi Germany and the Holocaust  
GER 201-202 Intermediate German I & II  
GER 315 Conversation and Composition

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**History Minor**  
*18 credits*

The History minor consists of 18 credits in History. At least 9 credits must be at the 300 level or above. At least 6 credits must be in non-U.S. and non-European History.
Holocaust Studies Minor
18-21 credits

The minor in Holocaust Studies combines historical background with an interdisciplinary exploration of the Holocaust through film, literature, philosophy, psychology, sociology, and other History offerings. The following curriculum helps students develop a firm knowledge of the Holocaust as an event and an understanding of its precipitating factors and legacy. With a deeper awareness of such issues as prejudice, discrimination, and racism, students should be better able to analyze contemporary political situations and think critically about ethical responsibility.

Holocaust Studies (3 credits)
HIST 252/HOLO 252 The Holocaust

Note: Within the Breadth and Depth sections combined, students must select courses from at least three disciplines.

Breadth Courses (6-7 credits)
Select two of the following:
- ENG 260 Readings in World Literature: Bible as Literature (specific title required) (4 credits)
- HIST 253 The Second World War
- HIST 291 World of the Old Testament
- HIST 351 Nineteenth-Century Germany
- HOLO 290 Special Topics
- PHIL 220 Ethics
- PHIL 231 Comparative Religion
- PSYC 221 Social Psychology
- SOC 227 Sociology of Genocide

Depth Courses (9-12 credits)
Select three of the following:
- ENG 252 Literature of the Holocaust (4 credits)
- FILM 352 Film Genres and Directors: The Holocaust (specific title required) (4 credits)
- HIST 353/HOLO 353 Nazi Germany and the Holocaust
- HOLO 254 Women and the Holocaust (4 credits)
- HOLO 490 Advanced Special Topics
- HOLO 495 Seminar
- HOLO 497 Internship
- HOLO 498 Independent Study
- PHIL 313 Philosophy and the Holocaust
- SOC 326/HOLO 326 Sociology of the Holocaust

International Studies Minor
24-25 credits

This interdisciplinary minor combines a core of international/comparative politics courses with both history and geography area studies to enhance global awareness of spatial, historical, and power relationships. All students who select the International Studies minor must complete the equivalent of one intermediate-level modern language course.

International Politics (9-10 credits)
POSC 271 International Politics
Select two of the following:
- ANTH 110 Cultural Anthropology
- ECON 415 International and Development Economics
- MGT 360 International Management (4 credits)
- POSC 294 Cooperative Education (international/comparative focus)
- POSC 381 U.S. Foreign Policy
- POSC 451 Politics of Developing Areas
- POSC 461 Comparative Politics

Area Studies (9 credits)
GEOG 303 Political Geography
Select two of the following:
- ANTH 316 Cultures of Southeast Asia
- GEOG 345 Geography of Latin America
- GEOG 347 Geography of Europe
- GEOG 349 Geography of Asia
- GEOG 351 Geography of Africa
- GEOG 371 Geography Field Trip (abroad)

History (6 credits)
Select two of the following from different areas:
- HIST 122 Modern East Asia
- HIST 322 The Chinese Revolution
- HIST 324 Modern Japan
- HIST 343 Europe Since 1945
- HIST 352 20th Century Germany
- HIST 367 Modern America 1950-Present

Journalism Minor – Broadcast Media
21-23 credits

This minor serves the needs of students seeking an introduction to journalism in the broadcast media. It combines 19 credits in writing production and broadcast journalism theory with additional electives in writing and the social sciences.

JRN 201 News Writing I – Introductory
*JRN 302 Broadcast Journalism
Select two of the following:
*JRN 308 Radio Journalism
*JRN 408 Television Journalism
*JRN 446 Community Television News
JRN 380 Internship
*These courses have required labs.

In addition, select 6 credits in writing and social sciences with the approval of a Journalism faculty advisor.
Journalism Minor – Print Media  
20 credits

Students complete 13 credit hours of writing/editing in Journalism and 6 credit hours of related courses.

JRN 201 News Writing I – Introductory
JRN 280 Equinox Staff
JRN 301 News Writing II – Reporting
Select two of the following:
   - JRN 306 News Editing
   - JRN 401 Feature Writing
   - JRN 410 Public Affairs Reporting

With written approval of a Journalism faculty member, select 6 credits in research methods, statistics, social science, or history.

Management Minor  
25 credits

To help prepare non-Management majors for careers in business or for graduate study in law or business administration, the Management minor is available.

ECON 201 Macroeconomics
MGT 101 Introduction to Management (2 credits)
MGT 202 Quantitative Decision Making
MGT 213 Financial Accounting
Three of the following:
   - MGT 301 Organizational Theory and Behavior
   - MGT 319 Financial Management
   - MGT 324 Human Resource Management
   - MGT 331 Principles of Marketing
   - MGT 345 Operations Management
   - MGT 381 Management Information Systems

Mathematics Minor  
24-25 credits

CS 140 Computer Programming I (4 credits)
*MATH 141 Introductory Statistics
MATH 151-152 Calculus I, II
MATH 231 Linear Algebra
MATH 251 Calculus III or
   - MATH 260 Numerical Methods
MATH elective (220 or above)
*This requirement can be fulfilled by completing PSYC 251.

Mathematics Education Minor  
23-26 credits

Students starting with MATH 151 may complete a 23-credit minor and need not take MATH 130.

CS 140 Computer Programming I (4 credits)
MATH 130 Precalculus
*MATH 141 Introductory Statistics
MATH 151 Calculus I
MATH 171 Structure of Number Systems
MATH 172 Application of Number Systems
MATH 275 Geometry for K-9 Teachers or
   - MATH 320 Geometry
MATH 310 History of Mathematics
*This requirement can be fulfilled by completing PSYC 251.

Music Minor  
24 credits

The Music minor presupposes a high level of interest and aptitude in music. All students are auditioned before admission to the program.

*MU 101, 102, 201 Applied Music (6 credits)
MU 114 Music Cultures of the World
MU 118 Functional Piano I (2 credits)
**MU 151 Music Theory I (2 credits)
MU 152 Music Theory II (2 credits)
MU 161 Aural Skills I (1 credit)
MU 162 Aural Skills II (1 credit)
MU 171-178 Ensembles (4 credits)
One of the following:
   - MU 112 Latin American Music
   - MU 115 Women in Music
   - MU 212 Music in America
   - MU 218 History of Jazz
   - MU 290 Special Topics in Music (minimum total 3 credits)
MU 310 Western Music Before 1750
MU 312 Western Music After 1750
MU 486 20th Century Music

*Applied Music courses may be taken for 1 or 2 credits each, with additional semesters of study as necessary, for a minimum of 6 credits total.

**Students who do not pass the theory placement test given at the time of their audition are advised to seek a private tutor to eliminate this deficiency before starting the sequence of theory classes.

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**Philosophy Minor**
18 credits

This minor normally comprises six courses. At least three courses must be numbered 300 or above. Distribution requirements may be partially waived by written permission of the Philosophy faculty.

PHIL 100 Logical Argumentation or
PHIL 211 Sense and Nonsense
PHIL 231 Comparative Religion I or
PHIL 232 Comparative Religion II

Select one of the following:
PHIL 220 Ethics
PHIL 322 Media Ethics
PHIL 350 Aesthetics
PHIL 360 Philosophy of Law

Select two of the following:
PHIL 300 Ancient Philosophy
PHIL 301 Medieval and Renaissance Philosophy
PHIL 302 Modern Philosophy
PHIL 304 American Philosophy
PHIL 306 Existentialism
PHIL 308 Contemporary Philosophy
PHIL 313 Philosophy and the Holocaust
PHIL 358 History and Philosophy of Science: 1700 to Present
PHIL 393 Topics in History of Ideas
PHIL 406 Existentialism and Film

Select one Philosophy elective.

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**Psychology Minor**
18 credits

PSYC 101 General Psychology

Select one of the following course sequences (6 credits):
PSYC 253 Brain and Behavior and
PSYC 355 Psychology of Learning
or
PSYC 242 Personality and either
PSYC 343 Humanistic and Transpersonal Psychology, or
PSYC 345 Abnormal Psychology
or
PSYC 251 Psychological Statistics* and
PSYC 340 Psychological Testing
or
PSYC 311 Child and Adolescent Psychology and
PSYC 314 Adulthood and Aging

Three Psychology electives at the 300 or 400 level.

*Students who have already completed MATH 141 may not take PSYC 251 for college credit; therefore, this requirement may be fulfilled by completing MATH 141. Students must take an additional 3-credit PSYC elective in place of PSYC 251 to fulfill the psychology minor credit requirements.

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**Political Science Minor**
18 credits

This minor offers an opportunity for study in Political Science. Beyond POSC 201 Introduction to Political Science, the minor consists of five additional courses (15 credits) in Political Science. Of these electives, one course must be in U.S. Politics/Public Administration and another in International Politics/Comparative Politics, selected in consultation with the Political Science faculty. All other electives must be 300- or 400-level courses. A maximum of 3 credits may be earned from POSC 496/497.

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**Physics Minor**
21 credits

PHYS 241, 242, 245 University Physics I, II, III
PHYS 342 Modern Physics

Select two of the following:
ASTR 307 University Astronomy
PHYS 330 Thermodynamics
PHYS 339 Classical Mechanics
PHYS 440 Electricity and Magnetism

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**Safety Studies Minor**
18-19 credits

TDS 181 Safety Awareness

Select a minimum of four courses (12 credits) from the following. (Note: CHEM 103/107 Fundamentals of Chemistry and Lab is a prerequisite for TDS 380, 381, 387, 482, and 487.)

CHEM 103/107 Fundamentals of Chemistry and Lab
TDS 281 Introduction to Fire Science
TDS 284 Industrial Safety
TDS 286 Ergonomics
TDS 380 Safety and Health Standards
SP 201-202 Intermediate Spanish I & II
SP 315 Conversation in Spanish
SP 316 Composition in Spanish
SP 330 Latinos in the U.S.
SP 405 Contemporary Spanish Usage or
SP 320 Commercial Spanish

Statistics Minor
24 credits
*MATH 141 Introductory Statistics
MATH 151-152 Calculus I, II (4 credits each)
MATH 242 Applied Statistics
MATH 251 Calculus III (4 credits)
MATH 341 Mathematics Probability
MATH 342 Mathematics Statistics
*This requirement can be fulfilled by completing PSYC 251.

Technology Studies Minor
24 credits
Technology, Design and Safety (TDS) Core (3 credits)
TDS 100 Exploring Technology
Technology Studies Electives (21 credits)
Electives must be chosen from Technology Studies courses within the TDS Department. At least one course (3 credits) must be at the 300 level or higher. Safety Studies courses are not to be included in this minor.

Theatre Minor
19 credits
Courses taken must include:
Two courses from the 100 level
Two courses from the 200 level
Two courses from the 300-400 level
One of the following:
TAD 122 Theatre Laboratory I (Taken concurrently with TAD 121)
TAD 222 Theatre Laboratory III
TAD 297 Production Credit
TAD 298 Applied Performance

Women’s Studies Minor
21-23 credits
This minor is an interdisciplinary program that explores, from a feminist and global perspective, the contributions,
ideas, and experience of women in all areas of society. Faculty and students are actively engaged in examination of and discourse on women's lives in all their diversity, including age, sexual preference, race, ethnicity, and social class.

WS 201 Introduction to Women's Studies
WS 301 Feminist Theory
Select one of the following:
   WS 495 Seminar
   WS 497 Internship
Select four courses (at least one from each school: Arts and Humanities, Professional Studies, and Sciences/Social Sciences). Special topics may also be available.

**Arts and Humanities**
- ENG 203 Women's Writing (4 credits)
- ENG 240 Readings in American Literature: Women and Nature (specific title required) (4 credits)
- ENG 381 Women Writers (4 credits)
- FILM 352 Film Genres and Directors: Contemporary Women Directors (specific title required) (4 credits)
- FILM 495 Seminar: Feminist Issues in Film (specific title required) (4 credits)
- HIST 269 Women in Modern America
- HIST 495 Seminar: Gender in Early North America (specific title required)
- MU 115 Women in Music

**Professional Studies**
- ESEC 220 Women and Education
- HLSC 220 Women and Health

**Sciences/Social Sciences**
- ANTH 315 Women, Gender, and Culture
- BIO 101 Women and Science (specific title required)
- PSYC 425 Psychology of Women
- SOC 321 Women in Society
- SOC 345 Sociology of Families

**Special Topics**
- WS 290 Topics in Women’s Studies
- WS 498 Independent Study

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**Writing Minor**

**20 credits**

The writing minor helps develop an essential skill in ways applicable to any major, and offers students a means of pursuing their own interests in the field. Students may choose to focus primarily on fiction and poetry, may concentrate on nonfiction writing, or may combine these genres. All students are required in the last year of their program to complete and submit a portfolio of revised and selected work.

Select one:
- ENG 202 Expository Writing
- ENG 204 Creative Writing

Select three courses (including at least two courses at the 300 level or above):
- ENG 202 Expository Writing (if not taken above)
- ENG 203 Women’s Writing
- ENG 204 Creative Writing (if not taken above)
- ENG 208 Topics in Writing
- ENG 301 Fiction Workshop
- ENG 302 Poetry Workshop
- ENG 303 Nonfiction Workshop
- ENG 304 Writing for Teachers
- ENG 308 Advanced Topics in Writing
- ENG 402 Theory and Practice

Required of all students:
- ENG 405 Writing Minor Portfolio
The College offers an Associate in Arts degree and several Associate in Science degree programs. The Associate in Arts degree is an Associate in Arts, General Studies. The Associate in Science programs include General Studies, Applied Computer Science, Chemical Dependency, and Technology Studies.

The Associate in Arts and the Associate in Science can be pursued as a two-year terminal degree program, or as a pre-baccalaureate program enabling articulation into a four-year program.

Each program of study includes a concentration, which consists of 18-30 credit hours of related/sequential course work. The concentrations offer the opportunity to develop expertise in an academic discipline or professional area of interest. Courses required in the concentration may not be used to fulfill General Education requirements unless specified in the program description.

It is also recommended that students develop competence in a second language, acquire or enhance computer literacy, and select an experiential learning opportunity in which discipline-based knowledge can be applied in a real-life setting. Students planning to continue their studies in a bachelor’s degree program should become familiar with the General Education requirements at that level.

**Degree Requirements**

1. All associate degree programs require completion of a minimum of 60 credit hours with a minimum grade point average of 2.0 based on a 4.0 scale.

2. At least 30 credits must be completed at Keene State College.

3. Matriculated baccalaureate students must declare their intention to complete an Associate’s degree by filing an Intent to Graduate form prior to completing the final 30 credits of the baccalaureate degree.

4. Existing policies on transfer of credits and credit by examination prevail.

5. All credits taken at Keene State College apply toward calculating the minimum grade point average in accordance with College policies.

**General Studies**

*Associate in Arts*

**GENERAL EDUCATION REQUIREMENTS**

(minimum) 31 credits

* A. English Language Competence - 4 credits
  ENG 101 Essay Writing

* B. Arts and Humanities - 9 credits
  A minimum of nine credits including:
  • One course in History
  • One course in Art, Film Studies, Music, or Theatre and Dance
  • One course in literature — any course in English other than ENG 101, 202, 203, 204, 208, 300-level, or 400-level courses
  • Additional credits, if necessary, in Art, English, Film Studies, History, Music, or Theatre and Dance

* C. Social Sciences - 9 credits
  A minimum of nine credits from three different social science disciplines: Anthropology, Economics, Geography, Political Science, Psychology, or Sociology

* D. Sciences/Mathematics - 9 credits
  A minimum of nine credits including:
  • One course in Biology
  • One course in Physical Science: Astronomy, Chemistry, Geology, Meteorology, or Physics
  • Additional credits in Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, or Physics

**CONCENTRATION REQUIREMENTS**

(minimum) 30 credits

Students must complete a minimum of 30 credits in a self-designed concentration; 18 of the 30 credits must be 200-
level or higher. The 30-credit self-designed concentration requirement must include a minimum of two disciplines in Arts and Humanities. A minimum of 12 credits must be taken in at least one of the two disciplines.

DEGREE REQUIREMENTS
61 credits

Applied Computer Science

Associate in Science

This two-year concentration prepares students for employment in computer operations. Course work introduces the student to a variety of computer applications in business and industry. This program of study is designed to articulate with the bachelor of science and minor programs in Applied Computer Science.

GENERAL EDUCATION REQUIREMENTS
(minimum) 25 credits

Computer Science and Mathematics courses may also be used to fulfill the Sciences/Mathematics component (D) of the General Education requirements.

A. English Language Competence - 4 credits
ENG 101 Essay Writing

B. Arts and Humanities - 9 credits
A minimum of nine credits including:
• One course in History
• One course in Art, Film Studies, Music, or Theatre and Dance
• One course in literature — any course in English other than ENG 101, 202, 203, 204, 208, 300-level, or 400-level courses
• Additional credits, if necessary, in Art, English, Film Studies, History, Music, or Theatre and Dance

C. Social Sciences - 6 credits
A minimum of six credits from at least two different Social Science disciplines: Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

D. Sciences/Mathematics - 6 credits
A minimum of six credits from at least two different Science/Mathematics disciplines: Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, or Physics.

CONCENTRATION REQUIREMENTS
(minimum) 30 credits

Students must complete a minimum of 30 credits in a self-designed concentration; 18 of the 30 credits must be 200-level or higher. The 30-credit self-designed concentration requirement must include a minimum of two disciplines in sciences/mathematics, social sciences, or professional studies. A minimum of 12 credits must be taken in at least one of the two disciplines.

DEGREE REQUIREMENTS
61 credits
**Computer Architecture Requirement**

One CS course, approved by advisor, in a second, non-Windows computer architecture is required. Currently, this can be satisfied by a course using the iSeries, UNIX, or Linux operating system. If also a programming language, this course may simultaneously satisfy the second language requirement; however, an additional three credits will be required in the event that a student elects to use a single course to satisfy both the computer architecture, and second language requirements.

**CS Electives**

One CS 200-level (or higher) course
One CS 300-level (or higher) course

**ELECTIVES**

Select courses to reach a total of 60 credits for the degree.

**DEGREE REQUIREMENTS**

60 credits

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**Chemical Dependency**

*Associate in Science*

This concentration provides a basic foundation for further education in alcohol/substance abuse studies. All students must demonstrate competence in first aid.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 25 credits*

A. *English Language Competence – 4 credits*

ENG 101 Essay Writing

B. *Arts and Humanities – 9 credits*

A minimum of nine credits from at least two different Arts and Humanities disciplines: American Studies, Art, Communication, English, Film Studies, History, Journalism, Modern Languages, Music, Philosophy, or Theatre and Dance.

C. *Social Sciences – 6 credits*

A minimum of six credits from at least two different Social Science disciplines: Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

D. *Sciences/Mathematics – 6 credits*

A minimum of six credits from at least two different Science/Mathematics disciplines: Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, or Physics.

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**CONCENTRATION REQUIREMENTS**

24 credits

HLSC 200: Alcohol and Other Drugs: The Fundamentals
HLSC 380 Alcohol: Model of Chemical Dependency
HLSC 486 Assessment, Diagnosis and Counseling
HLSC 490 Advanced Special Topics (In Chemical Dependency, Substance Abuse/Addictions)
HLSC Elective in Chemical Dependency, Substance Abuse/Addictions
HLSC Elective in Chemical Dependency, Substance Abuse/Addictions

Select a total of 6 credits from the following:

- HLSC 101 Health and Wellness: Trends and Issues
- HLSC 214 Nutrition Fundamentals
- PSYC 221 Social Psychology
- PSYC 253 Brain and Behavior
- PSYC 311 Child and Adolescent Psychology
- PSYC 314 Adulthood and Aging
- PSYC 345 Abnormal Psychology
- PSYC 444 Counseling

**ELECTIVES**

Select courses to reach a total of 60 credits for the degree.

**DEGREE REQUIREMENTS**

60 credits

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**Technology Studies**

*Associate in Science*

The two-year Technology Studies Program provides specialized preparation within a very flexible curriculum format for individuals who plan to become technicians in industry. A primary goal of the program is to prepare students for solving the kinds of human and technical problems found in the technological environment. A core requirement is followed by a concentration of courses in CAD-CAM, Product Design, Electro-Mechanical Technologies, or Safety Studies through individual program design done in consultation with an academic advisor.

Although the two-year Technology Studies program is intended to lead to industrial employment, the program is fully transferable into the four-year Technology Studies program at Keene State College.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 25 credits*

MATH 120 Applied Algebra and Trigonometry is required
for the Sciences/Mathematics component (D) of the General Education Requirements.

A. English Language Competence - 4 credits
ENG 101 Essay Writing

B. Arts and Humanities - 9 credits
A minimum of nine credits from at least two of the Arts and Humanities disciplines: American Studies, Art, Communication, English, Film Studies, History, Journalism, Modern Languages, Music, Philosophy, or Theatre and Dance.

C. Social Sciences - 6 credits
A minimum of six credits from at least two different Social Science disciplines: Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

D. Sciences/Mathematics - 6 credits
MATH 120 Applied Algebra and Trigonometry
A minimum of six credits including:
- MATH 120 Applied Algebra and Trigonometry
- Additional credits in Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Meteorology, or Physics

CONCENTRATION REQUIREMENTS
30 credits
Technology, Design and Safety (TDS) Core (3 credits)
Select one of the following:
TDS 100 Exploring Technology
TDS 140 Introduction to Visual Communication
TDS 181 Safety Awareness

Technology Studies Electives (27 credits)
Select at least 27 credits from TDS offerings, 15 of which must be at the 200 level or above.

ELECTIVES
Select courses to reach a total of 60 credits for the degree.

DEGREE REQUIREMENTS
60 credits
Keene State College has a long history of preparing teachers at the undergraduate, post-baccalaureate, and graduate level. Currently students aspiring to become a teacher may select from several options, which are described below and in other sections of this catalog. In addition to being accredited by the New England Association of Schools and Colleges, the Keene State College Teacher Education programs have received accreditation from the National Council for Accreditation of Teacher Education (NCATE) and the New Hampshire State Board of Education.

A. Undergraduate Teacher Preparation
Undergraduate Teacher Preparation is designed for the student who is earning his/her college degree with the goal of becoming a certified teacher. The undergraduate program requires three areas of study. General education provides students with a background in liberal arts. Students need to adhere to the General Education requirements stipulated by the Education major and any other major/concentration they are pursuing. Education coursework focuses on the development of an understanding of the teaching profession, diversity of learners, and effective teaching practices along with a series of supervised pre-professional experiences. The third area of study is a major in a discipline outside of education. Though the programs appear intensive, it is possible to complete most of them within four years, provided students seek the support of advisors, maintain required grades, and fulfill requirements for acceptance into Teacher Education during the second year.

Undergraduate students preparing for the teaching profession may choose from one of the following options:

Option I: Education. Requires second major. See B.S. Education for more information.
- Elementary Childhood (birth through age eight)
- Elementary Education (kindergarten through grade 6/8)
- Elementary/Special Education (kindergarten through grade 6/8 plus general special education certification K–12)
- Middle–Junior High School Mathematics (typically grades 4–9)

- Secondary/Special Education (General special education certification K–12 with dual certification option available)

Option II: Secondary Teacher Certification. See following majors for more information:
- Biology
- Chemistry
- Chemistry–Physics
- Earth Sciences: Geology
- Social Studies - requires additional courses in one of the following majors:
  - Geography
  - History
  - Social Science
  - Sociology
- English
- French
- Mathematics
- Spanish

Option III: K-12 Certification. See following programs for more information:
- Music
- Physical Education
- Applied Computer Science

Undergraduate Policies and Procedures
The following are thematic to all of the undergraduate options in Teacher Education:

ESEC 100 Introduction to Teaching is offered to first-year students in the fall or spring. This course is designed to involve students in exploring the teaching profession, making preliminary career choices, and planning their years of study at the College.

PROGRAM PLANNING plays an important role in managing college life and in developing competence as a teacher. Students will be assigned a faculty advisor upon completion of Admission to Teacher Education (see below), declare their major(s), and develop a program of studies to fulfill requirements. The ROUTE Handbook, required for ESEC 100 and available in the KSC Bookstore, is designed to support students in planning their studies.
ADMISSION TO TEACHER EDUCATION: Admission to Keene State College does not necessarily guarantee admission to Teacher Education. Materials for application to Teacher Education are available in the Teacher Education and Graduate Studies Office in Rhodes Hall SS111. Students are to meet the following requirements:

• Completion of the first three ESEC courses (ESEC 100, ESEC 150, ESEC 250) with a grade of C or better
• Reference form
• Passing scores (as determined by the State of New Hampshire Department of Education) on the Pre-Professional Skills Test (PRAXIS I)
• Completion of 36 credits (12 of which must be from KSC) with a GPA of 2.5
• Evidence of meeting specified standards in order to pursue certification programs
• Payment of $30

TRANSFER CREDITS: Students who wish to transfer credits into a teacher certification option must apply through the Department chair. Ordinarily, no more than four credits from another institution may be applied to satisfy program requirements due to the uniqueness of ESEC courses.

FIELD EXPERIENCES begin as early as the first year. Students are expected to participate in one to three hours per week of field experience, outside the scheduled classroom times, for ESEC 150 and ESEC 281/282. Other courses prior to the Methods sequence (ESEC 380s) and Student Teaching require some time, but not a specified amount per week.

ADMISSION TO STUDENT TEACHING: Students are required to submit a letter of intent to student teach following completion of courses leading up to and including 300 level methods and practicum courses in the specific certification program. Criteria relating to the future teacher’s knowledge, skills, and dispositions will be evaluated. Information is included in the ROUTE Handbook and available from the Office of Teacher Education and Graduate Studies (Rhodes SS111). The following criteria will be used:

• Completion of a minimum of 90 credits
• Completion of the core courses (from ESEC 100 through ESEC 380s/those methods courses which apply to certification option being pursued) with a C or better and a GPA of 2.5
• Completion of content major or second major requirements with GPA of 2.5
• Cumulative GPA equaling 2.5.

Transcripts will be reviewed prior to placing students. Deadlines for application are February 15 for student teaching during the following Fall semester and October 1 for student teaching during the following Spring semester.

PROFESSIONAL PORTFOLIO: Students are encouraged to document professional growth, experiences, and reflections through the thoughtful development of a professional portfolio. Suggested guidelines and course assignments will help support the prospective teacher in the development of a portfolio, starting in the first year and culminating during student teaching.

PROCEDURES FOR APPLYING FOR TEACHER CERTIFICATION: Application for initial teacher certification in the state of New Hampshire requires completion of a state-approved program of study, completion of a formal application and payment of fee, a favorable recommendation from the KSC Certification Officer in the Teacher Education and Graduate Studies Office, achievement of passing scores on all state of New Hampshire-required standardized exams, completion and submission of the New Hampshire Criminal/Record Release Form, and any other existing state requirements at the time of application. Note: Students interested in obtaining certification in other states must contact appropriate agencies for specific certification requirements.

B. Post-Baccalaureate Teacher Certification Program

Students who have earned a bachelor’s degree from an appropriately accredited institution and are interested in obtaining teacher certification may apply for admission to the Post-Baccalaureate Teacher Certification Program. Additional information on the post-baccalaureate program, policies and procedures may be found in the Advanced Study in Education – Post-Baccalaureate Certification Programs section of this catalog.

C. Master’s Degree with Teacher Certification

Keene State College offers an intensive one-year Master’s program for students who have earned an appropriate baccalaureate degree from an accredited institution and wish to pursue an intensive full-time program leading to teacher certification in selected areas and a Master’s in Curriculum and Instruction: World Education Links (WEL). Additional information on this program may be found in the Advanced Study in Education – Master of Education section of this catalog.
Enter to Learn … Go Forth to Serve

Tomorrow’s educational leaders emerge from Keene State as new teachers, advanced special educators, master teachers, school counselors, and principals. At Keene State, we successfully guide intelligent and enthusiastic individuals as they become confident, competent educators actively improving public and private school environments. Keene State College has a long history of preparing teachers at the undergraduate, post-baccalaureate, and graduate level. The KSC programs of Advanced Study in Education are designed for the adult learner who aspires to enter the field of education, as well as for the experienced educator who seeks new knowledge, skills, and/or additional certification as his or her career develops.

Whether you are an experienced educator or are taking your first step toward teacher certification, KSC is ready to help you achieve your goals. Your opportunity to have a positive influence on the lives of children and youth and the future of education begins when you enroll in an area of Advanced Study in Education. Keene State College proudly offers programs and options that lead toward the master of education degree, post-master’s certification, and post-baccalaureate teacher certification.

The Keene State College programs of Advanced Study in Education are accredited by one or more of the following: the New England Association of Schools and Colleges, the National Council for Accreditation of Teacher Education (NCATE), or the New Hampshire State Board of Education.

More importantly, KSC is committed to bringing the highest level of state and national education standards to life. We strive to create an educational environment that fosters the development of professionals – educators dedicated to addressing the needs of students in ways that will dramatically improve their lives.

The faculty and staff of Keene State College are excited about each program option. Our instructors include full-time faculty members and model practitioners in the field, who present meaningful, relevant information and structured experiences essential to the development of strong, practitioner-oriented knowledge, skills, and dispositions. Our graduates are noted for an active leadership style that stimulates positive systemic change within demanding school environments.

Major Themes

In the programs of Advanced Study in Education we emphasize the study of students within schools, families, and community contexts in addition to identifying best practices through assessment and evaluation of classroom and school activities. The primary themes around which the department of Education, Special Education, and Early Childhood (ESEC) is organized are Self-Esteem and Confidence, Striving for Excellence, Social Responsibility and Ethics, Collaboration in a Community of Learners, Diversity, Life Span Development, Families, Integration of Knowledge, Problem Solving, and Creating and Constructing One’s Own Knowledge.

Professional Standards

Each of the programs of advanced study in education is framed by standards from national organizations. These standards specify the knowledge, skills, and dispositions professional educators should have, and in that way suggest desired outcomes of the various programs and options. Each specialty area uses the standards in planning courses and experiences and strives to meet as many standards as possible.

Program Administration

Admission

Candidates for admission to a program of Advanced Study in Education must submit the appropriate ap-
Application, including required materials, to the KSC Admissions office. Furthermore, the following requirements must be met: submission of transcripts for all undergraduate and graduate course work, three letters of recommendation, an admissions essay, and an application fee. Applicants with a current official teacher certification from any state Department of Education must include a copy with their application. A personal interview is also required to complete the application process. Each program or option may specify additional admissions criteria. Refer to the specific admissions criteria for each program or option listed on the Application for Advanced Study in Education.

Applicants must have earned a baccalaureate degree with a minimum 2.5 grade point average for all undergraduate course work or must submit an official score report indicating a performance score at or above the 50th percentile on each of the three subtests of the (General) Graduate Record Exam (GRE).

Normally, application folders completed by the stated deadline will be evaluated for matriculation for the following semester.

**Deadline** | **Semester of Matriculation**
--- | ---
April 1 | Fall
December 1 | Spring

Keene State College reserves the right to close admissions, irrespective of the stated deadlines. Once accepted, students are required to submit a $100 nonrefundable enrollment services fee before matriculation.

Program applicants may enroll for core courses – ESEC 601 Research Strategies in Education and ESEC 602 Students, Families, Schools, and Society – at any time before matriculation. In addition, electives may be taken prior to matriculation. However, no more than nine credits, completed at Keene State College or another institution, may be transferred into any graduate program option.

**Administration of the Program**
The Graduate Program is administered through the Teacher Education and Graduate Studies (TEGS) Office in collaboration with the ESEC faculty and ESEC coordinator(s). The College’s Admissions Office coordinates the admissions process and notifies students of acceptance into the graduate program. The Office of the Registrar maintains academic records. The Office of Continuing Education monitors students who enroll in graduate courses but are not matriculated in order to assist nonmatriculated students in the admission and course selection process.

Upon admission to the Graduate Program, the TEGS Office, after consultation with the student and ESEC faculty, identifies an advisor. The TEGS Office monitors matriculated student progress through the program.

The ESEC faculty offers courses in a planned three-year cycle that allows realistic student planning for completion of degree requirements in two to three years. The three-year cycle includes fall, spring, and summer semesters. Courses are offered 4:30-7 p.m. and 7-9:30 p.m. Monday through Thursday during the academic year. Courses may also be offered on a Friday evening-Saturday schedule. Summer session classes include day and evening meetings as well as weeklong institutes. Classes typically have at least eight and up to 20 students enrolled in order to provide faculty attention to student needs appropriate for graduate study.

**Electives**
Electives for the graduate program are designed to provide each graduate student with experiences that are appropriate for their professional portfolio plans but are not studied in depth in specialty areas. Each elective course includes an identification of the Teacher Education Themes and Professional Standards dimension elements to which it relates. Electives are selected and organized around four overarching themes: Research, Assessment, Curriculum Development, and Human Development.

Elective courses are offered during the academic year and during the two summer sessions to facilitate student planning and completion of the program. Elective course offerings are planned one year in advance, with many scheduled for summer sessions. Electives will vary from 1 to 3 credits numbered at the 500 or 600 level.

**Degree Requirements**
- The minimum course requirements must be completed as specified in the program, with an average grade of B or higher (3.0 on a scale of 4.0). No grade less than C is acceptable, and no more than two grades less than a B may be applied to the degree. The Forgiveness Policy does not apply to courses taken for graduate credit.
The residence requirement for graduate students must be fulfilled (normally completed by taking at least 80 percent of credits through Keene State College courses).

An Intent to Graduate Form must be submitted to the TEGS Office during the first two weeks of the semester before the semester of graduation.

Payment of the graduation fee is required.

Transfer of Credit
Matriculated students may submit a Transfer of Credit Request form to the TEGS Office. Keene State College may accept up to nine transfer credits provided these credits apply to a candidate’s graduate program and are approved by the student’s advisor and/or the ESEC faculty chair. Only credits are transferred, not grades. Transfer course grades are not included in the 3.0 grade point average required for program completion. Transcripts must indicate that the student was enrolled in a graduate-level course in an appropriately accredited institution. Grades below a B (3.0 on a scale of 4.0) are not acceptable for transfer into graduate programs. Normally, courses taken more than seven years before the date of matriculation may not be transferred into a graduate program.

Time Limitations
The statute of limitations (total time period in which to complete a graduate program) is six calendar years from the date of official admission for programs that require 30 credits or more to complete, or four calendar years for those programs that require 29 or fewer credits.

Graduate Course Policy
A graduate student may elect to apply up to, but no more than, six credits of 300-and 400-level courses in their graduate program. Students taking 300-and 400-level courses for use in a graduate program must receive approval, prior to enrolling in such a course, from the graduate advisor and the director of the TEGS Office. Forms are available in the TEGS Office.

Course Load
A matriculated graduate student is considered to be full-time when he or she registers for nine or more credits in a given term. Registration for less than nine credits results in part-time status. Course load is a significant determining factor regarding eligibility for financial aid. Contact the Student Financial Services Office for additional information.

Academic Dismissal
Graduate students who fail to maintain a 3.0 cumulative grade point average (on a 4.0 scale) are subject to academic dismissal. Students may also be dismissed for lack of professionalism, attitude toward and aptitude for professed occupational goals, and other criteria established by the degree program.

Earning a Second Graduate Degree
Those presently holding a master’s degree may earn an additional master’s degree in a different area by completing all requirements for the second degree. Candidates for a second graduate degree should apply through the regular admissions process. Existing policies regarding transfer of credit apply.

Assistantships/Financial Aid
A limited amount of grant and loan money is available for financial aid for graduate students. Submit a Free Application for Federal Student Aid (FAFSA) by March 1. Then contact the Keene State Office of Student Financial Services. A limited number of graduate assistantships are available to matriculated graduate students. Benefits include a $3,000 annual stipend, plus waiver of tuition and fees (at the in-state rate) for up to eight approved courses (normally 24 credit hours) for the academic year. Twenty hours of work per week are expected of recipients during each semester. Applications are available from the TEGS Office.

Leave of Absence
Each semester students must either register for a course or request a leave of absence. Failure to do either may lead to administrative withdrawal from the college. To request a leave of absence, contact the Associate VP for Student Affairs office. Students must specify an intended date of return. No readmission procedure will be required when the College has granted an official leave.
Master of Education

1. Curriculum and Instruction Option

The Curriculum and Instruction (C&I) Option in the Master’s program in education promotes the development and enhancement of teaching competencies and strategies appropriate for regular classroom teachers. In concert with the graduate program conceptual framework and the professional educator development mission, students in the program are instructed in ways to “create environments that foster individual exploration of human potential” through study of theory and the applications of theory to practice. The standards from the National Board of Professional Teaching Standards serve as the basis for the program outcomes. The C&I Option has two tracks, Professional Development and Initial Certification/World Education Links.

Curriculum and Instruction: Professional Development Track (36 credits)

The Professional Development track is intended for education professionals who are currently employed as a teacher in a regular classroom. The course content for this program is designed to extend current teaching skills and knowledge with an emphasis on multiculturalism, ethics, social responsibility, and relationships. This track includes an extensive review of the foundations for American public education and contemporary redesign and reform movements. A course focusing on assessment strategies is included, since assessment of students, classrooms, and systems is essential for providing developmentally appropriate educational experiences for students. A series of courses follows, each course dealing in depth with a specific aspect of the teacher’s role in the regular classroom. The C&I Professional Development track concludes with an internship and capstone project.

Admission Criteria – Professional Development Track

Candidates for admission to the Curriculum and Instruction Professional Development Track must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- current employment as a teacher in an approved educational setting (grades pre-K to 12)
- one year full-time teaching experience
- a personal interview with a member of the C&I faculty.

C&I Option – Professional Development Track Requirements (36 credits)

INTRODUCTION TO GRADUATE STUDIES (5 credits)
ESEC 601 Research Strategies in Education
ESEC 602 Students, Families, Schools, and Society (2 credits)

C & I OPTION – PROFESSIONAL DEVELOPMENT TRACK (19 credits)
ESECCI 610 Portfolio Development and Assessment (1 credit)
ESECCI 621 Design and Reform of American Education
ESECCI 631 Assessment and Evaluation in Schools
ESECCI 641 Applied Learning Theory
ESECCI 651 Curriculum Development
ESECCI 661 Collaboration and Service Delivery Options
ESECCI 697 Internship

GRADUATE-LEVEL ELECTIVES (9 credits)
CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

Curriculum and Instruction Option: Initial Certification/World Education Links Track (39 credits)

The Initial Certification/World Education Links (WEL) track of the C&I Option is designed for individuals who have completed a baccalaureate degree in a liberal arts discipline. Additional coursework will be required if an applicant’s baccalaureate degree does not directly relate to the area of certification they are seeking. The following areas of certification are currently available through this program:
Applied Computer Science (grades K-12)
Biology (grades 7-12)
Chemistry (grades 7-12)
Early Childhood Development (Nursery-3)
Earth Science (grades 7-12)
Elementary Education (grades K-8)
English (grades 5-12)
French (grades K-12)
General Science (grades 5-9)
Middle/Junior High Mathematics (grades 5-8)
Physical Science (grades 7-12)
Secondary Mathematics (grades 7-12)
Spanish (grades K-12)
Social Studies (grades 5-12)

All students in the WEL program must be enrolled full-time and are placed in a field setting for an entire public school year (August to June). Students develop individual learning plans referenced to state and national standards for teachers. A mentor teacher in the classroom in which the student is assigned provides critical instruction and guidance in the development of a portfolio documenting competence in certification standards and completion of the individual learning plan. Students meet as a cohort every Friday and on selected Saturdays during the fall and spring semesters. Courses in the Initial Certification/WEL program are offered only to full-time graduate students.

The WEL program requires an initial review of previous course work to determine missing competencies required to meet state standards for teacher certification. Students must design activities, in consultation with WEL faculty, to address missing competencies.

The Initial Certification/WEL track includes content and experiences that address both the Teacher Education Themes and the New Hampshire State Standards for Teacher Certification. In addition to the content in portfolio development and assessment, design and reform of American education, assessment in the classroom context, and curriculum development, students enrolled in the C & I Initial Certification/WEL track are required to gain competence in life span development and classroom instructional management. Literacy and methods experiences at the level appropriate for the area of certification being sought are also required. Students who successfully complete all requirements in this program option receive the Master of Education degree and are recommended for initial teacher certification.

Admission Criteria – Initial Certification/World Education Links Track
Candidates for admission to the Curriculum and Instruction Professional Development Track must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- observe and interact with children of various ages in different public school environments for at least 100 hours before completing the application process – strongly recommended
- program planning sheet – to be completed with the academic counselor in the KSC Office of Teacher Education & Graduate Studies after the application and transcripts have been submitted
- demonstrated competence in the selected area of certification
- a personal interview with a member of the WEL faculty

C&I Option – Initial Certification Track
Requirements (39 credits)

PHASE 1 – EXPLORING THE SELF AS TEACHER (SUMMER)
ESEC 602 Students, Families, Schools, and Society (2 credits)
ESECCI 610 Portfolio Development and Assessment (1 credit)
ESECCI 621 Design and Reform of American Education
ESECCI 630 Life-span Development

PHASE 2 – KNOWING THE PRESENT (FALL)
ESEC 601 Research Strategies in Education
ESECCI 631 Assessment and Evaluation in Schools
ESECCI 651 Curriculum Development
ESECCI 687 Classroom/Instructional Management
ESEC 595 Methods with Field Placement

PHASE 3 – TEACHER LEADERSHIP (SPRING)
ESEC 560 Internship: Teaching
ESEC 699 Capstone

2. Educational Leadership Option
(36 credits)
(Meets New Hampshire Certification Competencies for Principal: grades K-12)

School principals are leaders who function in many roles to meet the diverse needs of individuals and groups in an increasingly complex society and a rapidly evolving world. To lead effectively, school principals must be prepared with the knowledge, skills, and ethical understandings necessary to create an environment that promotes human potential in terms of learning and citizenship.

The literature defines leadership as a direction-setting task. People who lead engage in visioning, purposing
and agenda setting. At the core is the principal’s role in the development of shared strategic visions for schools. Shared visions are the basis of a school’s culture and values, which suggests that leaders are people who facilitate the development of shared visions and thus create desired changes in culture and values (National Policy Board for Educational Administration, 1993).

A developmental and ecological perspective provides the theoretical framework for the program. The overriding theme of leadership drives the vision of school principal preparation. The developmental framework focuses on the needs, tasks, and challenges of children, adolescents, and adults in the school setting. The ecological perspective prepares future principals to work effectively with those systems that comprise and have an interrelationship with schools. These systems include school, family, community, and state, national, and global organizations.

A multicultural perspective is expressed by the commitment to prepare principals who can work effectively with diverse populations of children, adolescents, and adults. This emphasis encompasses sensitivity to individuals in an organizational setting. School principals work with students, teachers, paraprofessionals, staff members, other professionals, parents, board members, community members, and central office personnel in a variety of curricular and co-curricular planning and activities. Leadership, team building, and communication skills are crucial to working with all constituencies, including large groups, small groups, and individuals in conferencing.

An integral component of the program is the thorough development of each student’s understanding of what makes organizations effective; of motivation, human development, learning, and learning styles; and of mediation and conflict resolution, oral and written communication, and delegation.

School principals must be models of and knowledgeable about ethical and legal standards and must be capable of applying those concepts in the complexities of a school setting. They must have knowledge of the legal and ethical parameters regarding confidentiality, personal and group safety, personal biases and limits, consultation with colleagues, and the need to refer an issue to another individual, central office, or outside agency.

The Educational Leadership Option has two tracks. The first is the traditional program that requires students to satisfactorily progress through a series of courses that are offered within the semester format. Typically, courses meet once per week during the academic year and twice per week during summer sessions.

The second track is the Principal Residency Network (PRN). PRN is a 12-month, full-time residency track. Students enroll full-time and develop individual learning plans referencing state and national standards and develop portfolios with evidence of completion of the learning plans. PRN students are assigned to mentor principals selected by the program option faculty. After acceptance into the Educational Leadership Option, an additional application step is required. Information on PRN is available from the Office of Teacher Education & Graduate Studies (TEGS) or faculty of the Educational Leadership Option.

**Admission Criteria – Educational Leadership Option**

Candidates for admission to the Educational Leadership Option must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- current employment in an approved educational setting (grades pre-K to 12)
- two years full-time experience as a qualified educator (three years full-time experience is required for Certification as a Principal by the N.H. Dept. of Ed.)
- a personal interview with a member of the Educational Leadership faculty

**Educational Leadership Option Requirements (36 credits)**

**INTRODUCTION TO GRADUATE STUDIES (5 credits)**

ESEC 601 Research Strategies in Education

ESEC 602 Students, Families, Schools, and Society (2 credits)

**EDUCATIONAL LEADERSHIP OPTION (22 credits)**

ESECEL 610 Portfolio Development and Assessment (1 credit)

ESECEL 621 Organizational Leadership

ESECEL 622 School Effectiveness and Reform

ESECEL 631 Staff Selection, Supervision and Evaluation

ESECEL 641 School Law

ESECEL 652 Budget and Facility Management

ESECEL 697 Internship (fall)

ESECEL 697 Internship (spring)

**GRADUATE-LEVEL ELECTIVES (6 credits)**

**CAPSTONE EXPERIENCE (3 credits)**

ESEC 699 Capstone

3. School Counselor Option (39 credits)

(Meets New Hampshire Certification Competencies for Guidance Counselor; grades K-12)

The School Counselor Option in the Master’s program in education encourages the development of school counselors
who are actively involved in school transformation and see themselves as agents of change, who are making a positive difference in students’ lives. This program promotes the enhancement and development of school counseling skills and strategies. Developmental, ecological/systematic, and multicultural perspectives provide the theoretical frameworks for the program.

A developmental perspective focuses on the needs, tasks, and challenges of children and adolescents at each stage in their growth. An ecological/systematic perspective prepares future counselors to work effectively with those systems that form the context of students’ lives. These systems include the school, family, and community, with its array of support and intervention strategies. An ecological perspective also considers the impact of community, national, and global events on students and the spectrum of effective school counselors’ responses to these events.

A multicultural perspective is expressed by the commitment to preparing counselors who can work sensitively and effectively with diverse populations, including the full range of cultural, ethnic, gender related, class, and racial diversity that exists in schools and in society. This emphasis includes careful attention to the entire range of learning differences and styles of the student population.

Since school counselors work with students in a variety of contexts, they need to have skills in individual counseling, small group guidance and counseling, and classroom guidance. Leadership in facilitating communication and team building among faculty and staff members and with families and students are critical components of the school counselor’s role. Effective leadership requires interpersonal and consultation skills and the ability to mediate and resolve conflicts. Skills in behavior management, crisis intervention, and referral and provision of services are crucial, as is an understanding of how to work with learning differences and emotional and health-related problems.

School counselors need to be well grounded in current ethical and legal standards. Ethical practice must be infused in and guide all of their work. Awareness of the guidelines of professional organizations is of utmost importance. Legal and ethical considerations include understanding the parameters surrounding confidentiality; knowing one’s own biases and limits, when it is necessary to consult with colleagues, and when to refer cases to another individual or agency. An ethical school counselor actively seeks to continuously learn more about this ever-growing field and is careful to seek appropriate peer review and clinical supervision throughout his or her career.

The School Counselor Option is field based; each course requires students to apply course content to a school or counseling context. The program is also sequential in design, with each course cluster providing a base for subsequent courses, all revolving around the Themes and Professional Standards dimensions of the graduate program conceptual Framework. Two semester-long School Counselor Internships (elementary and secondary) include a weekly seminar and require students to demonstrate mastery-level counseling in a school setting. Program flexibility and individualization occur with the courses as students design and try out interventions based on interpretations of theory and research into identified best practices.

In concert with the graduate program conceptual framework and the professional educator development mission, students in the program are instructed in ways to “create environments that foster individual exploration of human potential” through study of theory and the applications of theory to practice. Knowledge and competency statements adapted from the American School Counselor Association (ASCA) and the Council for the Accreditation of Counseling and Related Educational Programs (CACREP) provide the framework for program outcomes (Professional Standards dimension of the conceptual framework).

Admission Criteria – School Counselor Option
Candidates for admission to the Educational Leadership Option must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- observe and interact with children of various ages in different public school environments for at least 100 hours before completing the application process – strongly recommended
- a personal interview with a member of the School Counselor faculty

School Counselor Option Requirements (39 credits)
Program prerequisite (to be completed prior to internship): A minimum of at least one course in child/adolescent development.

INTRODUCTION TO GRADUATE STUDIES (5 credits)
ESEC 601 Research Strategies in Education
ESEC 602 Students, Families, Schools, and Society (2 credits)

SCHOOL COUNSELOR OPTION (28 credits)
ESECSC 610 Program Orientation/Portfolio Development (1 credit)
ESECSC 622 School Counseling: Roles, Responsibilities, and Interventions
ESECSC 626 Professional Seminar for School Counseling
ESECSC 631 Assessment and Evaluation for School Counselors
ESECSC 641 Career Developments
ESECSC 651 Methods and Skills of Counseling
ESECSC 652 Group Counseling in Schools
ESECSC 662 School Counseling: Theoretical Foundations
ESECSC 696 Internship: Elementary
ESECSC 697 Internship: Secondary

GRADUATE-LEVEL ELECTIVES (3 credits)
Course(s) to be determined in consultation with faculty advisor.

CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

4. Special Education Option (39 credits)
Keene State College is committed to offering professionals in the region opportunities to pursue professional development, advanced graduate studies, and advanced certification by the N.H. Dept. of Ed. in: Emotionally Disturbed (grades K to 12) and Learning Disabilities (grades K to 12). To ensure graduate opportunities in the Special Education Option, Keene State has entered into a collaborative agreement with the College for Lifelong Learning (CLL). This joint effort gives professionals the opportunity to engage in dialogue with colleagues in the area and pursue development of their own interests and expertise. Students seeking initial general special education certification should refer to the post-baccalaureate program or undergraduate program.

The Special Education Option in the master’s program is designed to support professionals on their journeys to enhance competence as special educators, pursue certification in learning disabilities and emotional and behavior disorders, and earn a graduate degree. The course work is divided into two segments. The “Introduction to Graduate Studies” works with students to develop an understanding of how to evaluate existing research and design classroom-based action research. They also investigate perspectives that examine how students, families, schools, and society impact their roles. The “Special Education Option” begins by guiding the professional through self-reflection and goal setting in light of professional standards and current issues that constitute the context for special education. Students engage in the CLL modules to develop and demonstrate professional competence in the advanced certification areas. They are also encouraged to enroll in elective courses that correspond with their professional goals.

When students are awarded advanced certification in Emotionally Disturbed (grades K to 12) and Learning Disabilities (grades K to 12), they will submit materials to demonstrate professional competence for graduate credit at KSC. The last course in the Special Education Option connects students’ work with collaborative efforts in the schools. The “Capstone Experience” requires graduate students to develop their own school-based projects.

Intensive studies focusing on special education topics that lead to advanced certification in learning disabilities and emotional/behavior disorders are completed in conjunction with the CLL Special Education Teacher Training (SETT) Program. This part of the program revolves around school-based, independent learning defined by a set of six to seven modules. The modules are designed to allow the professional to work both independently and under the supervision of a mentor professional. Students engaged in the SETT program are provided with a course syllabus, a timeline to gauge independent work, related tasks and readings, and rubrics to evaluate performance. Texts, articles, and related assignments are designed to provide participants with background information. In addition, field-based requirements allow for connections with site-based activity, giving professionals opportunity to apply different ideas with feedback from their supervisors. The CLL SETT Program leads to advanced certification by the N.H. Dept. of Education in: Emotionally Disturbed (grades K to 12) and Learning Disabilities (grades K to 12).

Admission Criteria – Special Education Option
Candidates for admission to the Special Education Option must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- current certification in General Special Education (grades K to 12)
- one year full-time teaching experience in special education
- current employment in an approved educational setting (grades pre-K to 12) located within the geographic service area approved by CLL
- a personal interview with a member of the Special Education faculty

Ideally, candidates will begin their graduate studies at KSC or apply to the two programs concurrently.

In order to complete this option a student must fulfill expectations defined by CLL and be accepted into the SETT program. Candidates may be evaluated in terms of a minimum undergraduate GPA, effective writing skills (organization, clarity, fluency, and technical qualities), and evidence of self-direction. Candidates approved by CLL will engage in independent learning modules, which lead
to a recommendation by CLL for advanced certification by the N.H. Dept. of Ed. in: Emotionally Disturbed (grades K to 12) and Learning Disabilities (grades K to 12).

Applicants accepted at both institutions will be assigned an advisor at KSC and CLL. KSC students and advisors meet to project a timeline for program completion, discuss options, and complete a program planning sheet. CLL students meet with their advisor to discuss how to: secure a mentor, participate in field supervision, make effective use of SETT modules, and create and sign a contract for completion.

Special Education Option Requirements (39 credits)
INTRODUCTION TO GRADUATE STUDIES (5 credits)
ESEC 601 Research Strategies in Education
ESEC 602 Students, Families, Schools, and Society (2 credits)

SPECIAL EDUCATION OPTION (22 credits)
ESECSP 610 Portfolio Development and Assessment (1 credit)
ESECSP 612 Demonstrated Certification Competence (18 credits)
Appropriate documentation from CLL is required. These credits may be awarded by KSC for work completed at CLL leading to a recommendation for advanced certification by the N.H. Dept. of Ed. in: Emotionally Disturbed (grades K to 12) and Learning Disabilities (grades K to 12)
ESECSP 661 Collaboration and Service Delivery Options

GRADUATE-LEVEL ELECTIVES (9 credits)
Elective credits must be completed at KSC. Students are encouraged to participate in Institutes and offerings in other KSC graduate programs that serve to enhance their understanding of serving students with special needs.

CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

Post-Master’s Certification Programs
For individuals currently holding an appropriate master’s degree who wish to become certifiable as a school principal or school counselor, post-master’s certification programs are available as follows:

1. Educational Leadership Certification (22 credits)
(Meets New Hampshire Certification Competencies for Principal: grades K-12)
Refer to the Master of Education: Educational Leadership Option section of this catalog for a description of this program.

Admission Criteria
Candidates for admission to the Educational Leadership program must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- current employment in an approved educational setting (grades pre-K to 12)
- two years full-time experience as a qualified educator (three years full-time experience is required for Certification as a Principal by the N.H. Dept. of Ed.)
- earned appropriate master’s degree
- a personal interview with a member of the Educational Leadership faculty

Educational Leadership Certificate Requirements (22 credits)
ESECEL 610 Portfolio Development and Assessment (1 credit)
ESECEL 621 Organizational Leadership
ESECEL 622 School Effectiveness and Reform
ESECEL 631 Staff Selection, Supervision and Evaluation
ESECEL 641 School Law
ESECEL 652 Budget and Facility Management
ESECEL 697 Principal Internship (fall)
ESECEL 697 Principal Internship (spring)
2. School Counselor Certification
(25 credits)
(Meets New Hampshire Certification Competencies for Guidance Counselor: grades K-12)

Refer to the Master of Education: School Counselor Option section of this catalog for a description of this program.

Admission Criteria
Candidates for admission to the School Counselor program must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

• observe and interact with children of various ages in different public school environments for at least 100 hours before completing the application process – strongly recommended
• a personal interview with a member of the School Counselor faculty
• earned appropriate master’s degree

School Counselor Certificate Requirements (25 credits)
Program prerequisite (to be completed prior to internship): A minimum of at least one course in child/adolescent development.

ESECSC 610 Program Orientation/Portfolio Development (1 credit)
ESECSC 622 School Counseling: Roles, Responsibilities, and Interventions
ESECSC 631 Assessment and Evaluation in School
ESECSC 641 Career Development
ESECSC 651 Methods and Skills of Counseling
ESECSC 652 Group Counseling in Schools
ESECSC 662 School Counseling: Theoretical Foundations
ESECSC 696 Internship: Elementary
ESECSC 697 Internship: Secondary

Post-Baccalaureate Teacher Certification Programs

Post-Baccalaureate Teacher Certification Program (PBTCP) is specifically designed to address the needs of two distinct populations:

• Experienced educators who want to become certified in another discipline: these individuals will have completed a baccalaureate degree and typically possess current teacher certification.

• Individuals who hold a baccalaureate degree and whose life experiences have led them to seek initial teacher certification: this group may range from the novice student who has no background or experience in education to individuals who have a wealth of experience and/or are employed as teacher aids, tutors, para-professionals or special education classroom teachers.

This program closely follows the undergraduate Teacher Education model. It is composed almost exclusively of undergraduate courses. Through this program, students are able to meet New Hampshire competencies for certification in one or more of the following areas:

Applied Computer Science (grades K-12)
Biology (grades 7-12)
Chemistry (grades 7-12)
Early Childhood Development (Nursery-3)
Earth Science (grades 7-12)
Elementary Education (grades K-8)
English (grades 5-12)
French (grades K-12)
General Science (grades 5-9)
General Special Education (grades K-12)
Middle/Junior High Mathematics (grades 5-8)
Music Education (grades K-12)
Physical Education (grades K-12)
Physical Science (grades 7-12)
Secondary Mathematics (grades 7-12)
Spanish (grades K-12)
Social Studies (grades 5-12)

Selection of a Content Area is required for admission. Prior to admission, it is strongly recommended that applicants have at least 100 hours of contact with children in a public school setting. This track requires an initial review of all post-secondary course work. The Office of Teacher Education & Graduate Studies coordinates the examination of official transcripts, relevant standardized test results and other application materials to develop an individualized educational plan that will address the KSC Teacher Education Themes while meeting New Hampshire state standards for Teacher Certification. The educational plan will typically address certification competencies not met by the student’s baccalaureate degree. Required courses will guide students toward the acquisition of the knowledge, skills and dispositions necessary to demonstrate competence in their selected area of certification and as a professional educator.

Extra academic preparation may be required for applicants whose baccalaureate degree is not closely related to the area of certification they are seeking. Prior to engagement in the Student Teaching experience, it is strongly recommended that a student have at least 500 hours of contact with children of various ages in different public school environments.
Admission Criteria
Candidates for admission to the Post-Baccalaureate Teacher Certification Program must submit an Application for Advanced Study in Education, including required materials, to the KSC Admissions office. Furthermore, the following criteria must be met:

- observe and interact with children of various ages in different public school environments for at least 100 hours before completing the application process—strongly recommended
- program planning sheet – to be completed with the academic counselor in the KSC Office of Teacher Education & Graduate Studies after the application and transcripts have been submitted
- a personal interview with the academic counselor for Teacher Education & Graduate Studies

General Special Education
(Meets New Hampshire Certification Competencies for General Special Education: grades K-12)

The Post-Baccalaureate program for certification in General Special Education is designed to meet the needs of students who seek initial certification at this level. The program is a blend of both undergraduate and graduate courses with an emphasis on a yearlong internship experience. The internship may be conducted on-the-job (for students employed as a teacher in a special education setting), or in a field experience approved by the faculty coordinator of this program. The program is designed to address the critical shortage of highly qualified special educators in New Hampshire, and will primarily serve three populations: (1) certified teachers who are working in a “regular” education setting; (2) individuals employed as Special Education teachers via the N.H. Dept. of Education - Alternative IV process (provisional certification in a Critical Shortage area); and (3) individuals with minimal experience in education or those who have a wealth of experience and/or are employed as teacher aids, tutors, para-professionals, etc. Upon completion of this program, the successful candidate may apply up to eighteen graduate level credits toward the Master of Education Degree: Curriculum & Instruction Option (36 credits).

The PBTCP requires an initial review of previously completed course work and an interview with a KSC representative. The Office of Teacher Education & Graduate Studies coordinates the examination of official transcripts, relevant standardized test results and other application materials to develop an individualized educational plan that will address the KSC Teacher Education Themes while meeting New Hampshire state standards for Teacher Certification. Additional coursework may be required if an applicant’s baccalaureate degree does not provide the necessary foundation.

Phase 1 – Introduction to Teaching
This phase is designed for individuals who are NOT currently certified as a Teacher. Students must demonstrate competency in “general” education before proceeding with Phase 2 of this program. Individuals who possess a recognized form of teacher certification have demonstrated the required competency and may begin with Phase 2.

- ESEC 150 Development, Exceptionality and Learning I
- ESEC 250 Development, Exceptionality and Learning II
- ESEC 282 Literacy in the Content Areas
- ESEC 320 Education Environments/Practices
- ESEC 385 Methods: (consult with SPED coordinator for appropriate section)
- ESEC 387 Creating Social Contexts for Learning

In order to progress to Phase 2 a student must have earned a “C” or better for each of the above courses. A cumulative GPA of 2.5 or greater is also required for these courses.

Phase 2 – General Special Education (24 or 30 credits)
Students who possess current certification in an appropriate area will only be required to complete 24 credits.

- SPED 301 Context for Teaching Students with Special Needs
- SPED 401 Instruction & Curriculum Design in Special Education
- *SPED 520 Assessment and Evaluation for Special Education
- *SPED 525 Transition Planning & Programming
- *SPED 560 Internship in Special Education I (6 credits)
- *SPED 565 Internship in Special Education II (6 or 12 credits)

Students must earn a C or better grade in each SPED course, and complete the program with a minimum cumulative Grade Point Average of 2.50.

*Up to eighteen graduate level credits completed in this program may be used to fulfill one half of the credits required to complete the Master of Education Degree: Curriculum & Instruction Option. Grades below a B (3.0 on a scale of 4.0) are not acceptable for transfer to the Master of Education.
Courses of Instruction

Because curriculum development is a continuous process, there may have been course changes subsequent to the publishing of this catalog. Therefore, the College reserves the right to add, change, or delete curricular offerings and/or make curricular refinements. Some changes are necessitated by agencies that accredit the College or award certificates to students. Check with the appropriate academic discipline to learn of any recent changes.

Course Availability
As a service to students and those who advise students, the College provides information regarding the semester a course is expected to be offered. The information is included in the course description. Please note that course schedule information is subject to change without notification. Furthermore, the inclusion of information as to when courses are typically offered does not constitute a contract between students and the College.

Course Numbering System
All courses carry three credits unless otherwise indicated. Prerequisites, if there are any, are listed at the end of each course description.

For courses numbered below 100, credits do not apply toward graduation.

100- and 200-level courses are introductory and intermediate courses usually taken during the freshman and sophomore years.

300- and 400-level courses are upper division courses, usually taken by juniors and seniors.

500-level courses are graduate courses but are open to senior undergraduates with permission of the appropriate divisional dean.

600-level courses are graduate courses only; they are not open to undergraduates.

Experimental courses are identified as 199 (basic), 399 (advanced), and 599 (graduate). They may be offered with permission of the discipline faculty, the appropriate divisional dean, and the vice president for Academic Affairs. Normally these courses are not repeated.

American Studies

AMST 210 INTRODUCTION TO AMERICAN STUDIES
4 credits
An interdisciplinary introduction to the nature, methodology, resources, premises, and problems of the American experience. Usually focuses on a particular decade. (Course also listed as ENG 210.) May be repeated once for credit as topics change. Fall, Spring

AMST 250 INTERPRETING AMERICAN CULTURE
4 credits
Course combines perspectives of social sciences and humanities to help students understand American culture in diverse contexts. Myths and realities of American subcultures are also examined. May be repeated once for credit as topics change. Annually

AMST 290 SPECIAL TOPICS
4 credits
Exploration of topics in American Studies. May be repeated as topics change. Spring

AMST 298 INDEPENDENT STUDY
1-8 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 8 credits.

AMST 390 CRITICAL APPROACHES
4 credits
Exploration of selected aspects of the American experience viewed from one or more critical perspectives. When appropriate, also listed as ENG 390 or a 400-level English course. May be repeated as topics change. Every two years

AMST 490 ADVANCED SPECIAL TOPICS
4 credits
Exploration of advanced topics in American Studies. May be repeated as topics change. Occasionally
AMST 495 SEMINAR
4 credits
An interdisciplinary examination of a selected period, theme or issue of importance to understanding the American experience. Prerequisite: junior standing and permission of instructor. (Course may be team taught. When appropriate, also listed as ENG 495.) May be repeated for credit as topics change. Every two years

AMST 497 INTERNSHIP
1-4 credits
Experience in the field providing an opportunity to explore and reflect on work/professional options related to American Studies. Settings may be museums, historical/preservation/restoration organizations, libraries/archives, media, schools, environmental groups, social services, or other related fields. May be repeated to a maximum of 8 credits. Permission of American Studies coordinator, approval and appropriate supervision by core faculty.

AMST 498 INDEPENDENT STUDY
1-8 credits
Intensive study of an issue, problem, or topic related to American Studies. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 8 credits.

Anthropology

ANTH 110 CULTURAL ANTHROPOLOGY
Introduction to anthropological knowledge and understanding of human cultures and societies. Cross-cultural comparison and review of kin-based as well as nation-state societies. Fall, Spring

ANTH 111 ARCHEOLOGY AND PHYSICAL ANTHROPOLOGY
An introduction to the biological and cultural evolution of human beings. In addition to the prehistoric record, the course will cover primatology, human variation, and problems of theory and practice in archeology. Spring

ANTH 212 WORLD ETHNOGRAPHY
Ethnographies are descriptions of cultural systems based on anthropological fieldwork and informed by ethnology (cross-cultural comparison). In this course, students read ethnographies to understand the diversity of cultures. They also examine strengths and weaknesses of ethnography as a means of describing and explaining culture and cultural diversity. Prerequisite: ANTH 110. Fall

ANTH 214 WORLD PREHISTORY
A general survey of the basic research questions and data sets that archaeologists use to reconstruct the prehistory of peoples from around the world. It begins with the appearance of anatomically modern humans and traces cultural development to the emergence of the first civilizations. Prerequisite: ANTH 111. Fall, alternate years

ANTH 290 TOPICS IN ANTHROPOLOGY
Selected topics in anthropology. May be repeated as topics change to a maximum of 6 credits. Prerequisite: ANTH 110. Occasionally

ANTH 313 ANTHROPOLOGICAL THOUGHT
Anthropology, throughout its history, has attempted to understand the similarities and differences among human populations and their cultures. This course will examine different anthropological schools of thought in regard to how cultures should be studied and understood. Prerequisite: ANTH 212, or permission of instructor. Fall

ANTH 315 WOMEN, GENDER, AND CULTURE
An examination of the ideology and social reality of gender, and specifically women cross-culturally. The course covers various theoretical approaches and explores the ethnographic literature. Prerequisite: ANTH 110, or permission of instructor. Fall

ANTH 316 CULTURES OF SOUTHEAST ASIA
A cultural anthropological investigation of the diversity of cultures in Southeast Asia. Focuses on the large variety of economic and religious traditions in the area and how these interrelate. Prerequisite: ANTH 110, or permission of instructor. Spring, alternate years

ANTH 318 THE ANCIENT MAYA
A comprehensive investigation of the archeology of ancient Maya culture. The course begins with an examination of some of the earliest occupations in Mesoamerica and then documents the complex social, political, economic, and ideological developments of the Maya until the arrival of Spanish Europeans. Prerequisite: ANTH 111. Spring, alternate years

ANTH 335 PRACTICUM IN ANTHROPOLOGY
1–6 credits
This course provides an opportunity for students to use anthropological learning in a cultural setting for 8-10 hours each week. Students may select from among applied research, human services, or other social/cultural change settings. Prerequisite: Permission of instructor. Fall, Spring

ANTH 390 STUDIES IN ANTHROPOLOGY
1–6 credits
Selected topics in anthropology. May be repeated as topics change to a maximum of 6 credits. Prerequisite: ANTH 110. Occasionally

ANTH 417 HEALING, REPRODUCTION, AND CULTURE
A seminar that examines beliefs about health, sickness, human reproduction and the body across cultures. Students will explore, through ethnography and documentary, the influence of culture and politics on indigenous (e.g., shamanism), alternative, and western biomedical systems as well as on childbirth, menstruation, and menopause. Prerequisite: ANTH 212. Spring, even years

ANTH 494 COOPERATIVE EDUCATION
1–6 credits
Work-learning experience for Anthropology minors. Placement arranged by student, and approved, supervised, and
evaluated by faculty member. Student appends 3-4 hours each week in work setting for each credit earned. Compensation possible. May be repeated to a maximum of 6 credits (three credit maximum toward Anthropology minor). Prerequisite: Permission of instructor. Graded Pass/Fail. Fall, Spring

ANTH 498 INDEPENDENT STUDY
1–6 credits
Advanced independent study of an Anthropology area not normally available in the curriculum. Requires written report. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor. Fall, Spring

Art

ART 102 TWO-DIMENSIONAL DESIGN
Emphasizes specific and in-depth study of two-dimensional design and explores visual communication, primary design concepts, graphic arts, and the language of color. Studio projects will be completed outside of class. May be repeated for credit with approval of instructor. Fall, Spring

ART 103 THREE-DIMENSIONAL DESIGN
A comprehensive exploration of the properties of natural and human-made volumes and spaces. Projects involve sculptural objects and architectural and environmental design. Studio projects are completed outside of class. May be repeated for credit with approval of instructor. Fall, Spring

ART 111 INTRODUCTION TO ART
A study of the unique features of art and aesthetic experience designed to promote an understanding of artists and their works. Includes materials and techniques of artists, as well as the psychological and cultural aspects of artists in society. Fall, Spring

ART 125 DRAWING I
The practice of representational drawing emphasizing linear and form description with drawing media. Develops skills for all students, including Art majors. May be repeated for credit with approval of instructor. Fall, Spring

ART 208 CERAMICS I
Design and construction of wheel and handbuilt pottery, including the preparation of glazes and the process of firing. May be repeated for credit with approval of instructor. Fall, Spring

ART 211 ANCIENT ART
The history of Western art from Paleolithic cave paintings through Roman Imperial architecture. Prerequisite: ART 111. Spring 2004, 2006

ART 212 MEDIEVAL ART
The history of Western art from early Christian catacomb paintings through Gothic cathedral architecture. Prerequisite: ART 111. Fall 2004

ART 213 RENAISSANCE AND BAROQUE ART
The history of Western art from Florentine early Renaissance sculpture through French Rococo architecture. Prerequisite: ART 111. Spring 2005

ART 214 19TH AND 20TH CENTURY ART
The history of Western art from English Romantic architecture through American Pop Art painting. Prerequisite: ART 111. Fall 2003, 2005

ART 224 PHOTOGRAPHY
A study of black and white photography and the application of the medium to individual expression. Includes a working knowledge of camera operation, black and white film developing, and paper printing. Prerequisite: a 35mm camera or larger. May be repeated for credit with approval of instructor. Fall, Spring

ART 225 DRAWING II
Advanced studio work in pencil, ink, charcoal, and chalk from still life and figure models. May be repeated for credit with approval of instructor. Prerequisite: ART 125. Fall, Spring

ART 226 PAINTING I
An introductory course in oil painting with emphasis on color, shape, light, and texture as they affect the art of painting. Basic compositions of a representational nature and creative experimentation are encouraged. A technical understanding of the oil painting medium is also presented. Prerequisites: ART 102 and 125 or permission of instructor. Fall, Spring

ART 227 WATERCOLOR PAINTING
The study and practice of watercolor, including historical and contemporary approaches. Prerequisites: ART 102 and 125 or permission of instructor. May be repeated for credit with approval of instructor. Fall 2003

ART 228 FIGURE DRAWING LAB
1 credit
The practice of drawing from the model emphasizing gesture drawing and longer poses. Students are encouraged to work independently in a variety of media. Instruction from the professor comes with individual student needs. May be repeated for credit. May not be substituted for ART 125, ART 225, or ART 325. Prerequisite: ART 125.

ART 231 PRINTMAKING I
A survey of the techniques and history of printmaking. Investigation of relief and intaglio printmaking process. Covers both black and white and color printing processes. Prerequisites: ART 102 and 125 or permission of instructor. Fall, Spring

ART 234 SCULPTURE I
A comprehensive exploration in the fundamentals of sculpture using processes such as carving, casting, modeling, assemblage, and welding. Emphasis on developing standards in sculptural technique and personal expression. Fall, Spring

ART 244 SCULPTURE II
A comprehensive exploration of the unique aspects of sculpture, including the use of a variety of materials and techniques. Prerequisites: ART 111 and ART 225. Fall, Spring

ART 245 GRAPHIC DESIGN FUNDAMENTALS
Students are introduced to the vocabulary, principles, tools, and techniques of the design profession. Assignments focus on the development of design skills using typography, image, and layout. Critiques help students identify focus and aptitude for design work. Prerequisites: ART 102 and ART 125. Fall, Spring

ART 246 COMPUTERS AND DESIGN
This course introduces beginners to computer design using QuarkXPress and scanning and image manipulation. Students...
produce computer-generated layouts. Prerequisite: ART 245. Must be taken concurrently with ART 348. Fall, Spring

**ART 247 ILLUSTRATION**
Students will explore traditional and electronic solutions for creating illustrations. Methods of making images that have design applications for editorial, advertising, and information graphics are explored. 2-hour lecture, 2-hour lab. Prerequisites: ART 246. Spring

**ART 290 TOPICS IN ART HISTORY**
Subjects vary according to current scholarship and events in Art. Emphasis on topics not usually offered in regular courses of instruction. Prerequisite: ART 111. May be repeated for credit as topics change.

**ART 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits. Fall, Spring

**ART 308 CERAMICS II**
The design and construction of both wheel and handbuilt pottery problems in conjunction with the history of pottery. Prerequisite: ART 208 or permission of instructor. May be repeated for credit with approval of instructor. Spring

**ART 325 DRAWING III**
Special graphic studies involving independent projects and research. Emphasis is on the unique personal attitudes and interests of the student. Prerequisites: ART 125 and ART 225 or permission of instructor. May be repeated for credit with approval of instructor. Spring

**ART 326 PAINTING II**
Advanced studio work in painting media. Will explore either figure or landscape subjects. Traditional and contemporary approaches emphasized. Students are encouraged to explore their own interests regarding the subject. May be repeated for credit as subject matter changes. Prerequisites: ART 225 and ART 226, or permission of instructor. Fall, Spring

**ART 331 PRINTMAKING II**
An in-depth investigation of the technical and conceptual aspects of selected printmaking processes. Emphasis will be placed on the development of one or more of the following printmaking mediums: intaglio, lithography, relief, mixed media, and photo printmaking. May be repeated for credit with approval of instructor. Prerequisites: ART 225 and ART 231. Spring

**ART 344 SCULPTURE II**
A comprehensive investigation of the technical and conceptual aspects of selected processes associated with contemporary sculptural construction. Emphasis is placed on individual creativity and style. Prerequisite: ART 244. May be repeated for credit with approval of instructor. Spring

**ART 348 TYPOGRAPHY**
Students study type as graphic form and means of communication. Through related projects, students analyze the design and use of letterforms and the use of typographic grids. 2-hour lecture, 2-hour lab. Prerequisites: ART 245. Must be taken concurrently with ART 246. Fall, Spring

**ART 349 INTERMEDIATE GRAPHIC DESIGN**
Explores identity systems and informational design. Emphasis involves the study, research and exploration of various design processes with computer-added graphics that relate to multi-component graphic design problems and complex information. 2-hour lecture, 2-hour lab. Prerequisites: ART 246 and ART 348. Recommended to take concurrently with ART 350. Fall, Spring

**ART 350 ELECTRONIC IMAGING**
Students apply computer skills to produce complex computer-generated designs. Students explore text and image manipulation using Illustrator, Photoshop, etc. Service bureau output methods are discussed and applied. 2-hour lecture, 2-hour lab. Prerequisites: ART 246, and ART 348. Recommended to be taken concurrently with ART 349. Fall, Spring

**ART 351 HISTORY OF GRAPHIC DESIGN**
This studio-based course is a thorough investigation into the history of graphic design. Students learn to research and structure information through visual organization of image and text. Individually designed projects explain the progression of design history. 2-hour lecture, 2-hour lab. Prerequisites: ART 246, and ART 349. Fall

**ART 408 CERAMICS III**
Advanced study of wheel and handbuilt pottery problems, including theory and principles of claybodies, glazes, kiln construction and firing. Prerequisite: ART 308 or permission of instructor. May be repeated for credit with permission of instructor. Fall

**ART 426 PAINTING III**
Advanced and independent study of painting. Students must be sufficiently advanced in the understanding of art to design, initiate, and carry to a successful conclusion their own research with the assistance of the instructor and invited critics. Prerequisite: ART 326 or permission of instructor. May be repeated for credit with the permission of the instructor. Spring

**ART 444 ADVANCED GRAPHIC DESIGN**
Advanced exploration in visual communication design. Selected projects emphasize theoretical research in semiotics. Students are encouraged to experiment with different design processes and integration of expressive forms, communicative functions, and advanced computer technologies. Emphasis on originality, concept and portfolio pieces. 2-hour lecture, 2-hour lab. Prerequisites: ART 349. ART 350, and ART 445. Fall

**ART 445 TOPICS IN GRAPHIC DESIGN**
Topics rotate each semester and include the following: Beginning Web Design, Advanced Web Design, 3-D Animation, Beginning Multi-Media, Advanced Multi-Media, Advertising, Pre-Press, Advanced Typography, Book Design, Magazine
Design, Package Design, and Children's Book Illustration. May be repeated for credit as topics change. Prerequisite: ART 349. Fall, Spring

**ART 448 GRAPHIC DESIGN PORTFOLIO**
Seminar in planning and preparation of personal presentation and professional portfolio. Students develop professional-quality design pieces and ancillary documentation of their work. Portfolios of professional designers are reviewed and discussed. Prerequisites: ART 444, and last semester senior status. Spring

**ART 490 ADVANCED STUDIO TOPICS**
Advanced study and research in a specific studio discipline. Emphasis is placed on individual theoretical development. May be repeated for credit with approval of instructor. Prerequisite: To be determined as topics change or permission of instructor. Fall

**ART 492 ART HISTORY SEMINAR**
Advanced study in art history and aesthetics. Subjects vary according to contemporary scholarship. Emphasis is placed on theory rather than historical chronology. May be repeated for credit as topics change. Prerequisites: ART 111 and one of the following courses: ART 211, 212, 213, 214, 290 or permission of instructor. Spring

**ART 495 SENIOR SEMINAR**
Topics will include the discussion and criticism of contemporary visual art through gallery visits, readings and guest speakers. The course will also focus on the planning and preparation of the senior exhibition as well as the development of portfolios, resumes, slide photography and career opportunities. Prerequisites: Art major, senior status. Spring

**ART 496 BFA SENIOR STUDIO**
Independent advanced studio work in preparation for the BFA Senior Exhibition. Individuals will work directly with their BFA Advisors to develop a body of work consistent with their BFA option. May be repeated for a maximum of 6 credits. Prerequisites: Senior BFA standing. Fall, Spring

**ART 497 GRAPHIC DESIGN INTERNSHIP**
3-6 credits
A seminar and experiential learning opportunity to integrate graphic design theory with practice through on-the-job experience. Seminar meetings provide discussion topics and sharing of workplace experiences. Prerequisites: ART 245, 246, 348, and 349. Repeatable to a maximum of 12 credits. Fall, Spring

**ART 498 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to research and study a selected topic in art history, studio art, or graphic design in consultation with a faculty member. Prerequisite: Senior Art major status and permission of both the instructor and the Art Department chair. Repeatable to a total of 6 credits. Fall, Spring

## Astronomy

**ASTR 101 ELEMENTARY ASTRONOMY**
Survey course presenting a quantitative and descriptive view of current knowledge in the field and the methods used to acquire data. Historical and cultural perspective, tools of the astronomer, underlying astrophysical principles, solar and recently-obtained geological and planetary data, and origin and evolution of the universe, galaxies, stars, and planets. Occasional planetarium and observing sessions augment lectures. Spring

**ASTR 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**ASTR 307 UNIVERSITY ASTRONOMY**
An in-depth study of contemporary astronomy. Emphasis on deep space objects, their properties and evolution; methods of data acquisition and analysis; cosmology, planetary geology, lunar, and solar research. Occasional planetarium and viewing sessions augment lectures. Prerequisite: MATH 120 or equivalent. Some Physics or physical science is desirable.

**ASTR 498 INDEPENDENT STUDY**
1-6 credits
Intensive study of an issue, problem, or topic related to astronomy. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

## Biology

**BIO 101 TOPICS IN BIOLOGY**
An exploration of biological issues and methods for nonmajors. Applying basic principles to modern problems, the course may focus on a theme such as Evolution and Conservation of Biodiversity; Plants and Society; or Ecology and Environmental Issues. Can be repeated for credit as topics change. Fall, Spring

**BIO 102 TOPICS IN HUMAN BIOLOGY**
An exploration of topics related to human biology for nonmajors. Applying basic principles to modern problems, the course may focus on themes such as Human Physiology; Genetics and Society; Biology of Disease; or Women's Health. Can be repeated for credit as topics change. Fall, Spring

**BIO 104 TOPICS IN INVESTIGATIVE BIOLOGY**
4 credits
An integrated laboratory/lecture course for nonmajors that explores biological topics through hands-on investigative activities. Will focus on a theme, such as the forensic sciences or ecology, and will require use of the scientific method to
**BIO 151  LIFE: DIVERSITY**
An introduction to living organisms, emphasizing the principles of adaptation and diversity, with examples from the five kingdoms. Topics include systematics, Mendelian genetics, life cycles, evolution, and ecology. Designed for nonmajors and majors. Lab (BIO 152) required for Biology majors. **Fall, Spring**

**BIO 152  LIFE: DIVERSITY LAB**
Explorations into the world of living organisms. Laboratory and field projects providing first-hand experience with organisms, the methods of biology, and the process of scientific inquiry. Prerequisite: concurrent or prior enrollment in BIO 151. **Fall**

**BIO 153  LIFE: PROCESSES**
Biological mechanisms at the cellular and molecular level. Topics include cell structure and function, macromolecular structure and function, molecular genetics, cellular respiration and photosynthesis. Lab (BIO 154) required for Biology majors. Background in basic chemistry is recommended. **Spring**

**BIO 154  LIFE: PROCESSES LAB**
Explorations into the world of living organisms. Experimental analysis of structure and function in cells and organisms. Prerequisite: Concurrent or prior enrollment in BIO 153. **Spring**

**BIO 230  HUMAN ANATOMY AND PHYSIOLOGY I**
Structure and function of the human body, for students in physical education and allied health programs. Body organization and terminology, basic chemistry, the cell, histology, integumentary, skeletal, muscular, sensory, central, and somatic nervous systems. Prerequisite: CHEM 100, CHEM 103, or CHEM 111, depending on requirements of a student’s major. **Spring**

**BIO 231  HUMAN ANATOMY AND PHYSIOLOGY I LAB**
Structure and function of the human body investigated through experimentation, dissection, models, and skeletons. Topics include body organization, terminology, microscopy, the cell and transport mechanisms, histology, reflexes, and the integumentary, skeletonmuscular, central nervous, somatic nervous, and sensory systems. Prerequisite: BIO 230 (or concurrent). **Spring**

**BIO 232  HUMAN ANATOMY AND PHYSIOLOGY II**
Continuation of BIO 230. Structure and function of the endocrine, cardiovascular, immune, respiratory, digestive, urinary, reproductive, and autonomic nervous systems, and consideration of metabolism, nutrition, heredity, and regulation of temperature, fluid, electrolytes, and acid–base balance. Prerequisite: BIO 230. **Fall**

**BIO 233  HUMAN ANATOMY AND PHYSIOLOGY II LAB**
Structure and function of the human body investigated through experimentation, dissection, models and skeletons. Topics include the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIO 232 (or concurrent). **Fall**

**BIO 251  GENETICS**
A survey of the development of ideas on variation and heredity, the chromosomal and molecular basis of inheritance; medical, agricultural and social implications of genetics, population genetics and evolutionary change. Quantitative analysis and stochastic reasoning emphasized. Prerequisites: Grades of C or higher in BIO 151 and BIO 153. Knowledge of algebra is recommended. **Fall, Spring**

**BIO 252  ECOLOGY AND EVOLUTION**
This course emphasizes evolutionary, biological, and physical processes explaining the abundance and distribution of organisms. Basic evolutionary theory and ecological concepts at the individual, population, community and ecosystem levels are covered. Prerequisites: Grades of C or higher in BIO 151. **Fall**

**BIO 253  PHYSIOLOGY OF PLANTS AND ANIMALS**
An introduction to fundamental physiological processes of plants and animals. Topics may include gas exchange, water and ion balance, nutrient uptake and energy balance, and control systems. Prerequisites: Grades of C or higher in BIO 151 and BIO 153. **Spring**

**BIO 254  CELL BIOLOGY**
An exploration of biochemical and physiological principles underlying eukaryotic cell structure and function. Topics include cell evolution; cell theory; the cell cycle; cell structure; cellular transport and motility; cell signaling and cell death. Prerequisites: Grades of C or higher in BIO 151 and BIO 153. **Spring**

**BIO 255  EXPERIMENTAL GENETICS**
The experimental analysis of heredity through individual or small team laboratory projects. Significant out-of-class work is required. Prerequisite: Grades of C or higher in BIO 152 and BIO 154; pre- or co-requisite: BIO 251. **Fall, Spring**

**BIO 256  EXPERIMENTAL ECOLOGY AND EVOLUTION**
Laboratory, field work, and computer modeling in ecology and evolution emphasizing experimental design, data analysis and interpretation, scientific writing, and critical analysis of ecological literature. Prerequisites: Grades of C or higher in BIO 152 and 154; MATH 141; and pre- or co-requisite: BIO 252. **Fall**
BIO 257 EXPERIMENTAL PHYSIOLOGY
2 credits
Laboratory exercises designed to reinforce fundamental principles of physiology and engage students in scientific investigation. Prerequisites: Grades of C or higher in BIO 152 and BIO 154. Spring

BIO 280 RESEARCH ROTATIONS
Rotation through three research areas engaging students in the process of science using modern techniques and ideas spanning molecular/cellular to ecological/evolutionary biology. Two 3-hour laboratory sessions weekly. Prerequisites: Grades of C or higher in BIO 152, and BIO 154. MATH 141 strongly recommended. Fall, Spring

BIO 290 SPECIAL TOPICS
1-4 credits
Exploration and analysis of major topics of biology, such as human genetics, algae and fungi, marine biology, freshwater ecology, and biological aspects of sexual reproduction. Prerequisite: permission of instructor.

BIO 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 20 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

BIO 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits. Fall, Spring

BIO 315 GENERAL MICROBIOLOGY
4 credits
An introduction to the microbial world: the nature of microorganisms and their role in the biosphere and in human life, including health and disease, food and technology. Laboratory includes aseptic transfer, isolation, enumeration, identification and control of microorganisms. Prerequisites: BIO 153/154 and CHEM 220 or 221. Fall

BIO 322 FLOWERING PLANT BIOLOGY
4 credits
Plant systematics integrates taxonomy (identification, nomenclature, and classification of flowering plants), evolution, (speciation, reproductive biology, adaptation, convergence, biogeography), and phylogenetics (phenetics, cladistics, morphology and molecules). Lab emphasizes representative flowering plant families and genera of New England, keys and plant collecting. Prerequisites: Grades of C or higher in BIO 151/152 and BIO 153/154. Spring

BIO 333 INVERTEBRATE ZOOLOGY
4 credits
Lecture and laboratory course focusing on the behavior, ecology, anatomy, physiology, evolution, taxonomy, and natural history of invertebrates. Occasional field trips. 3-hour lecture, 2-hour lab. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154. Fall, alternate years

BIO 334 VERTEBRATE ZOOLOGY
4 credits
Lecture and laboratory course focusing on vertebrate anatomy, physiology, behavior, ecology, natural history, evolution, and systematics. Occasional field trips. 3-hour lecture, 2-hour lab. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154. Spring, alternate years

BIO 340 EVOLUTION
A discussion of the evolutionary forces as understood from Darwin to the present. Evolutionary theory is the main emphasis, rather than descriptions of changes in form and function for animal or plant groups. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154. Spring

BIO 351 ORNITHOLOGY
4 credits
Avian anatomy, physiology, behavior, life histories, ecology, conservation, systematics and phylogeny. Ornithological research methods, species identification, and field observation. Three hours lecture, three hours lab, field trips. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154. Summer, occasionally

BIO 352 ENTOMOLOGY
The anatomy, physiology, and life cycle of the more important species of insects. Attention is given to ecological and economic aspects. 2-hour lecture, 2-hour lab, field trips. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154. Occasionally

BIO 365 PLANT EVOLUTION
4 credits
Traces the evolutionary history of the plant kingdom. Emphasis is on molecular studies, and changes in structure and function in the transition from aquatic life to terrestrial adaptations of early vascular plants, first seed plants, and radiation of flowering plants. Prerequisites: Grades of C or higher in BIO 151/152 and BIO 153/154. Fall, alternate years

BIO 401 BIOCHEMISTRY
Explores the relationship between structure and function of macromolecules and other biologically active compounds to metabolism and the utilization of energy by the cell. Prerequisites: CHEM 222/226, and BIO 254 or permission of instructor. (Course also listed as CHEM 401.) Fall

BIO 403 EXPERIMENTAL BIOCHEMISTRY
2 credits
Practical experience in biochemical laboratory manipulations. Concepts relating to proteins, carbohydrates, lipids and other biologically active compounds. Prerequisite or co-requisite: BIO/CHEM 401 (Course also listed as CHEM 403). Fall
**BIO 405 MOLECULAR BIOLOGY**
5 credits
Lecture and laboratory course covering the structure and organization of DNA; DNA replication, repair and modification; transcription and RNA processing; protein biosynthesis; transcriptional and post-transcriptional control mechanisms, using examples from prokaryotes, eukaryotes and viruses. Experimentation in modern recombinant DNA techniques. Prerequisite: BIO 401/403. Spring

**BIO 408 DEVELOPMENTAL BIOLOGY**
5 credits
The processes governing development of form and function in eukaryotes, with emphasis on molecular and cellular interactions. Lab involves research on molecular and cellular control of development. Prerequisites: BIO 254, BIO 401/403. Fall, alternate years

**BIO 409 NEUROBIOLOGY**
5 credits
The molecular, cellular and system-level interactions governing the function of the nervous system. Topics include membrane biophysics, synaptic integration, signal processing, neuroendocrinology and comparative neuroanatomy. Prerequisites: BIO 253, 254, 257, 401, 403. Occasionally

**BIO 415 MICROBIAL DIVERSITY**
4 credits
The evolution, diversity and ecology of prokaryotic and eukaryotic microorganisms. Thematic emphasis on microbes as specialized cells, and microbial communities as complex metabolic and ecological systems with global implications. Topics include molecular phylogenies, metabolic diversity, early evolution, and symbiotic associations. Lecture and lab. Prerequisites: BIO 251, 254, and 315. Spring, alternate years

**BIO 440 EVOLUTION OF EARTH AND LIFE**
The origin and evolution of the earth and its inhabitants, emphasizing the interrelationships of the planet and its biosphere. Topics will include the origins of cellular and multicellular life and the causes and significance of mass extinctions. Also listed as GEOL 440. Prerequisites: BIO 252 or BIO 340, and GEOL 201; or BIO 151/152, GEOL 201 and GEOL 202; or permission of instructor. Spring, alternate years

**BIO 454 ECOLOGICAL PHYSIOLOGY**
Use of physiological data to better understand the distribution, abundance, and evolution of organisms. This course will examine the physiological responses of plants or animals to environmental stressors. Prerequisites: BIO 252, 253; and BIO 256 or 257. Spring, alternate years

**BIO 455 COMPARATIVE ANIMAL PHYSIOLOGY**
An investigation of how various animals function in their environment through the comparison of different strategies for solving fundamental physiological problems. Topics include gas exchange, muscle and nerve physiology, and digestion. Prerequisites: BIO 253, 401, 403; and BIO 256 or 257. Fall, alternate years

**BIO 457 RESEARCH METHODS: ECOLOGY**
2 credits
Laboratory and field work in ecology emphasizing experimental design, data analysis and interpretation, scientific writing, and critical analysis of recent ecological literature. Prerequisites: MATH 141 and pre- or co-requisite: BIO 451 or BIO 452.

**BIO 458 RESEARCH METHODS: PHYSIOLOGY**
2 credits
Laboratory work in the physiology of animals or plants emphasizing experimental design, data analysis and interpretation, scientific writing, and use of scientific literature. Prerequisites: MATH 141 and pre- or co-requisite: BIO 454 or BIO 455.

**BIO 490 ADVANCED SPECIAL TOPICS**
1-4 credits
Exploration and analysis of major topics of Biology, such as microtechnique, vertebrate and invertebrate zoology, plant physiology, algae, and biological aspects of sexual reproduction. Prerequisite: permission of instructor.

**BIO 494 ADVANCED COOPERATIVE EDUCATION**
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: BIO 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

**BIO 495 BIOLOGY SEMINAR**
2 credits
Capstone experience that refines basic skills and concepts through an exploration of specific themes in scientific literature. Course work emphasizes analysis, synthesis, organization and oral communication. Students lead classroom discussions; active participation is essential. Prerequisites: Senior standing and two 400-level Biology courses. Spring

**BIO 498 INDEPENDENT STUDY**
1-6 credits
Advanced independent study related to experimental aspects of various fields of Biology. The student is required to initiate a research project and to submit a written progress report.
One-hour conference. Prerequisites: two advanced courses in Biology. May be repeated up to a maximum of 6 credits.

Chemistry

CHEM 100 INTRODUCTION TO CHEMISTRY
Basic chemical principles, with emphasis on everyday life. Matter, energy, atomic and molecular structure, bonding, states of matter, equilibrium, solutions, and problem solving. Fall, Spring

CHEM 103 FUNDAMENTALS OF CHEMISTRY
Survey of general chemical principles. A quantitative and qualitative review of matter including atomic and molecular structure, bonding, reaction chemistry and chemical equilibria. Knowledge of algebra, exponentials, and logarithms expected. (Not open toward a major program in Biology, Chemistry, Geology, or Chemistry/Physics.) Co-requisite: CHEM 107 or permission of instructor. Fall, Spring

CHEM 107 FUNDAMENTALS OF CHEMISTRY LAB
1 credit
Experimental principles and basic concepts of chemistry. Evaluation of data related to the quantitative and qualitative investigation of matter. 3-hour lab. (Not open toward a major program in Biology, Chemistry, Geology, or Chemistry/Physics.) Prerequisite: Corequisite: CHEM 107 or permission of instructor. Fall, Spring

CHEM 111 GENERAL CHEMISTRY I
The first course in a one-year sequence covering fundamental principles and concepts, including stoichiometry, atomic and molecular structure, periodicity and thermochemistry. Previous chemistry recommended. For students who plan to take further chemistry courses. Knowledge of algebra, exponentials and logarithms expected. Prerequisite: Concurrent or prior enrollment in CHEM 115 or permission of instructor. Fall

CHEM 112 GENERAL CHEMISTRY II
The second course in a one-year sequence covering bonding, atomic and molecular structure, solutions, chemical equilibria, kinetics, acid-base equilibria, qualitative and quantitative analysis. For students who plan to take further chemistry courses. Prerequisite: CHEM 111 and CHEM 115, concurrent or prior enrollment in CHEM 116, or permission of instructor. Spring

CHEM 115 GENERAL CHEMISTRY LAB I
1 credit
The first of a two-semester laboratory sequence in General Chemistry. Topics include chemical separations and synthesis, energetics, gases, radioactivity, and periodicity. For students who plan to take further chemistry courses. Co-requisite: CHEM 111 or permission of instructor. Fall

CHEM 116 GENERAL CHEMISTRY LAB II
1 credit
The second of a two-semester laboratory sequence in General Chemistry. Topics include equilibrium, kinetics, acid-base equilibria, qualitative and quantitative analysis. For students who plan to take further chemistry courses. Prerequisite: CHEM 115. Corequisite: CHEM 112 or permission of instructor. Spring

CHEM 131 CHEMISTRY & THE ENVIRONMENT
A chemistry-oriented study of various environmental topics, including normal and abnormal environmental chemistry, environmental laws and regulations, the energy problem, water, air, and soil pollution, radiation, chemical hazards, risk assessment, etc. Prerequisite: CHEM 100 or permission of instructor. (Not open toward a major program in Biology, Chemistry, Geology, or Chemistry/Physics.) Fall

CHEM 220 FUNDAMENTAL ORGANIC CHEMISTRY
Fundamental introduction to the functional aspects of organic compounds, with emphasis on the biochemical relevance of structural and chemical properties. Designed for those for whom one semester of organic chemistry is sufficient. Prerequisite: CHEM 103 and CHEM 107, or CHEM 112 and CHEM 116, or permission of instructor. Corequisite: CHEM 224. Fall

CHEM 221 ORGANIC CHEMISTRY I
The first of a two-course sequence in organic chemistry, emphasizing modern concepts and problem-solving in structure, synthesis and mechanism, based on a functional group approach. Theoretical and practical aspects of modern spectroscopy supports its use in the laboratory course. Prerequisite: CHEM 112 and CHEM 116 or permission of instructor. Corequisite: CHEM 225. Fall

CHEM 222 ORGANIC CHEMISTRY II
The second of a two-course sequence in organic chemistry, emphasizing modern concepts and problem-solving in structure, synthesis and mechanism, based on a functional group approach. Theoretical and practical aspects of modern spectroscopy supports its use in the laboratory course. Prerequisite: CHEM 221 and CHEM 225 or permission of instructor. Corequisite: CHEM 226. Spring

CHEM 224 FUNDAMENTAL ORGANIC CHEMISTRY LAB
1 credit
A laboratory course covering basic concepts in experimental organic chemistry include synthetic, spectroscopic and chromatographic techniques. Prerequisite CHEM 105 and CHEM 107, or CHEM 112 and CHEM 116, or permission of instructor. Corequisite: CHEM 220. Fall

CHEM 225 ORGANIC CHEMISTRY LAB I
1 credit
Practical laboratory experience in organic chemistry, including instrumental methods and concepts in molecular synthesis and mechanistic study. Basic techniques, multistep synthesis and mechanistic experiments are enhanced by use of spectroscopic and chromatographic tools. Corequisite: CHEM 221. Fall

CHEM 226 ORGANIC CHEMISTRY LAB II
1 credit
Practical organic chemistry, including instrumental methods and concepts in molecular synthesis and mechanistic study.
Group work and experiment design are highlighted. Prerequisite: CHEM 225. Corequisite: CHEM 222. Spring

CHEM 251 QUANTITATIVE ANALYSIS
Basic principles of quantitative chemical analysis, including approximately equal treatment of wet chemical and instrumental methods. Topics include data handling, quality assurance, basic electronics, and the computerization of the laboratory. Prerequisite: CHEM 112 or permission of instructor. Corequisite: CHEM 255. Fall

CHEM 255 EXPERIMENTAL QUANTITATIVE ANALYSIS
2 credits
Experience in the application of theory to the analysis of simple and complex samples, including atomic absorption, gas and liquid chromatographic methods. Requires computer-assisted data reduction. Corequisite: CHEM 251. Fall

CHEM 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements are arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 40 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail. Fall, Spring

CHEM 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

CHEM 321 ORGANIC CHEMISTRY III
One-semester continuation of CHEM 221-222, extending modern concepts in structure and mechanism, as well as synthesis. Corequisite: CHEM 325. Prerequisite: CHEM 222 or permission of instructor. Occasionally

CHEM 325 EXPERIMENTAL ORGANIC CHEMISTRY III
1 credit
Third semester of organic labs. Corequisite: CHEM 321. Occasionally

CHEM 333 MEDICINAL CHEMISTRY
Where do drugs come from? How do they work? These questions are addressed from an organic chemical perspective. Topics covered include the action and synthesis of antimicrobials, heart drugs, hormones, and others. Prerequisites: CHEM 221/225 and 222/226 or permission of instructor. Spring

CHEM 341 PHYSICAL CHEMISTRY I
Introduction to quantum chemistry and its applications to atomic and molecular electronic structure, and spectroscopy. Prerequisites: MATH 141, 151 and 152, PHYS 141 and 142, and CHEM 112/CHEM 116 or permission of instructor. CHEM 251 and MATH 251 desirable, but not required. Corequisite: CHEM 345. Fall

CHEM 342 PHYSICAL CHEMISTRY II
Properties of gases, liquids, solids, and solutions. Thermodynamics, chemical and phase equilibria, conductance, electrical potentials, and kinetics. Prerequisites: MATH 141, 151 and 152, PHYS 141 and 142, CHEM 251/CHEM 255 or permission of instructor. MATH251 desirable, but not required. Corequisite: CHEM 346. Spring

CHEM 345 PHYSICAL CHEMISTRY LAB I
2 credits
Experimental work illustrating the principles of chemistry; emphasis on theoretical and experimental measurement in quantum chemistry, atomic and molecular spectroscopy. Prerequisites: MATH 141, 151 and 152, PHYS 141 and 142, and CHEM 112/ CHEM 116 or permission of instructor. Corequisite: CHEM 341. Fall

CHEM 346 PHYSICAL CHEMISTRY LAB II
2 credits
Experimental work illustrating the principles of chemistry; emphasis on the measurement of thermodynamic properties, chemical and phase equilibria, electric potentials and kinetics. Prerequisite: MATH 141, 151 and 152, PHYS 141 and 142, CHEM 251/CHEM 255. Corequisite: CHEM 342. Spring

CHEM 352 ENVIRONMENTAL CHEMICAL ANALYSIS
An interdisciplinary view of the subject, including its complexity, history, environmental laws and regulations, chemical hazards and risk assessment, biohazards, analytes and matrices, sampling, wet and instrumental methods, data handling and quality assurance, and legal aspects. Prerequisite: CHEM 112 or permission of instructor. Corequisite: CHEM 356. Spring

CHEM 356 ENVIRONMENTAL ANALYSIS LAB
2 credits
A five-hour, field-oriented laboratory, including orientation, “real-world” sampling, lab analysis, and computer-assisted data collection and reduction. Includes chain-of-custody, calibration, quality assurance, air and water sampling, with emphasis on chromatography and other instrumental techniques. Prerequisite: CHEM116 or permission of the instructor. Corequisite: CHEM 352. Spring

CHEM 363 INORGANIC CHEMISTRY
Modern structural and theoretical concepts and their applications to inorganic reactions and compounds. Prerequisites: CHEM 221/CHEM 225, CHEM 222/CHEM 226, CHEM 341/CHEM 345, and CHEM 342/CHEM 346 or permission of instructor. Corequisite: CHEM 365. Fall, alternate years

CHEM 365 INORGANIC CHEMISTRY LAB
1 credit
Practical inorganic chemistry, including instrumental methods and concepts in molecular synthesis of coordination and main group compounds. Corequisite: CHEM 363 or permission of instructor. Fall, alternate years
CHEM 371 INDUSTRIAL CHEMISTRY
Introduction to the practice of chemistry on the industrial scale. Includes material and energy accounting, process economics, development, optimization, and introduction to the patent process all as related to selected inorganic and/or organic processes and emerging technologies. Prerequisite: CHEM 221/CHEM 225 and CHEM 222/CHEM 226 or permission of instructor. Fall

CHEM 373 POLYMER CHEMISTRY
Introduction to polymeric materials and polymer chemistry. Includes methods of polymerization, polymer characterization, physical and chemical properties of polymers, test methodologies and uses of various commercially important polymeric materials. Prerequisite: CHEM 222/ CHEM 226 or permission of instructor. Spring, alternate years

CHEM 382 OCCUPATIONAL SAFETY AND HEALTH
Study of occupational safety and health resources, laws, and standards. Covers chemical, biological, radiological, electrical, mechanical, and physical hazards, their evaluation and control. Emphasizes chemical hazards. Students who desire a laboratory may take CHEM 386. Prerequisites: BIO 101 or higher and CHEM 100 or higher, or permission of instructor. Spring

CHEM 386 INDUSTRIAL HYGIENE LAB
1 credit
Laboratory and on-location experience, including gaseous, liquid, and particulate matter analyses. 3 hour lab/meeting. Prerequisite: CHEM 112/116 or permission of instructor. Corequisite: CHEM 382. Spring

CHEM 401 BIOCHEMISTRY
Explores the relationship between structure and function of macromolecules and other biologically active compounds to metabolism and the utilization of energy by the cell. Prerequisites: CHEM 221/ CHEM 225, CHEM 222/ CHEM 226, and BIO 153/154 or permission of instructor. BIO 254 recommended. Corequisite: CHEM 403. Course also listed as BIO 401. Fall

CHEM 403 EXPERIMENTAL BIOCHEMISTRY
2 credits
Practical experience in biochemical laboratory manipulations. Concepts relating to proteins, carbohydrates, lipids and other biologically active compounds. Pre- or corequisites: CHEM 401 and BIO 153/154 or permission of instructor. BIO 254 recommended. Course also listed as BIO 403. Fall

CHEM 454 INSTRUMENTAL ANALYSIS
Theory and practice of currently important methods of analysis. Emphasis on principles, applicability, economics of methods, and computerization. Methods include visible, UV, IR, and atomic absorption spectroscopy, emission methods, electro-analytical techniques, gas, liquid, and ion chromatography, resonance and mass spectrometries. Prerequisite: CHEM 221/225, CHEM 222/226, CHEM 251/255, CHEM 341/345, and CHEM 342/346 or permission of instructor. Corequisite: CHEM 456. Spring

CHEM 456 INSTRUMENTAL ANALYSIS LAB
2 credits
Experience with modern instrumentation, including chromatographic, electrochemical, spectroscopic, and irradiative techniques. Prerequisites: CHEM 255, CHEM 345, and CHEM 346, or permission of instructor. Corequisite: CHEM 454. Spring

CHEM 461 X-RAY CRYSTALLOGRAPHY
4 credits
Principles of X-ray crystallography as applied to molecular structure determination. Introductory and advanced methods for X-ray structure analysis including computer molecular mechanics modeling and database retrieval practice. Prerequisites: CHEM 112, CHEM 116, and one semester of organic chemistry, or permission of instructor. 3-hour lecture, 2-hour lab. Spring, alternate years

CHEM 481 LABORATORY TEACHING PRACTICUM
2-3 credits
Teaching of a college chemistry laboratory under the guidance of a mentor. Students participate in the preparation, instruction and evaluation necessary for effective teaching in an experimental laboratory setting. Permission of instructor required. Fall, Spring

CHEM 490 ADVANCED SPECIAL TOPICS
1-4 credits
Advanced topics in chemistry such as forensic chemistry, radiochemistry, solid state chemistry, bio-organic chemistry or others. May be repeated for credit as topics change. Prerequisites: CHEM 222, one chemistry at 300 level or higher, and permission of instructor. Fall, Spring

CHEM 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 40 hours/credit) to maximum of 12 credits per degree program. Prerequisites: CHEM 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail. Fall, Spring

CHEM 495 SEMINAR
1 credit
Reports and discussions of recent work in inorganic, organic, analytical, physical, environmental, and biological chemistry. Participation by students, faculty, and visitors in written and oral presentations. 1 hour class conference. Prerequisites: two advanced courses in chemistry or permission of instructor. May be taken for a maximum of 12 credits. Fall, Spring

CHEM 498 INDEPENDENT STUDY
1-6 credits
Advanced study of various fields of chemistry through individual reading, writing, or laboratory work. Requires a research
project conducted under the supervision of Chemistry faculty and a written report. May be repeated for a maximum of 6 credits.

Communication

COMM 171 FUNDAMENTALS OF SPEECH
Through experience in a variety of speaking situations, students gain self-confidence in organization of thought and self-expression. Not open to juniors and seniors except by permission. Fall, Spring

COMM 175 PRINCIPLES OF COMMUNICATION
A survey of the basic principles and theories of communication. Includes interpersonal communication, verbal and nonverbal processes, the application of logic to issues of communication, and small group interaction. Prerequisite: PHIL 100. Fall, Spring

COMM 250 CHILDREN AND THE MEDIA
The relationship of children and their development to their use of the mass media including television, radio, magazines, and the Internet. This course is a reading and writing course. May be used to fulfill the JRN 290 requirement for the Journalism major and the breadth requirement for the Communication major as either COMM 250 or JRN 290. Prerequisite: JRN 200. Fall

COMM 275 INTERPERSONAL COMMUNICATION
Advanced study and application of the principles of interpersonal communication: communication ethics, family relationships, problem solving, nonverbal communication, and small-group communication. Prerequisite: COMM 175, or permission of instructor. Fall, Spring

COMM 280 RADIO TRAINING
1 credit
Required for all on-air WKNH members. This course teaches the basics of board operation, FCC regulation and station policy. Fall, Spring

COMM 281 RADIO STATION MANAGEMENT
A laboratory experience working at WKNH in such positions as general manager, business manager or programming director. Prerequisite: permission of instructor.

COMM 290 SPECIAL TOPICS
An exploration of areas not covered by the regular curriculum. Content depends on available faculty. May be repeated for credit.

COMM 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

COMM 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

COMM 371 ADVANCED PUBLIC SPEAKING
Advanced study of the theory and practice of public speaking. The student gains proficiency through the study of diction, articulation, and organization of thought processes, semantics, and word selection. Practical application through experience in public speaking. Prerequisite: B or higher grade in COMM 171 and junior standing or permission of instructor. Fall, Spring

COMM 372 INTERCULTURAL COMMUNICATION
This course applies interpersonal and intercultural theories toward understanding intercultural communication and toward fostering intercultural communication competence. Prerequisite: COMM 275 and completion of the A & H language requirement. Spring

COMM 375 BUSINESS AND PROFESSIONAL COMMUNICATION
Communication and problem-solving in business and professional settings. Includes case study, analysis, research, and interviewing. Prerequisites: COMM 171, COMM 175, and junior standing or permission of instructor. Fall, Spring

COMM 376 THEORY OF COMMUNICATION AND RHETORIC
A survey of the major theories and methodologies of communication and rhetoric and their application to the analysis and appraisal of discourse. Prerequisite: COMM 175. Spring

COMM 379 INTERNSHIP
3-6 credits
A supervised, contracted experience applying communication theory and skills in a professional setting. Internships are arranged by the student with approval from Communication faculty. On-site and faculty supervision are required. Prerequisites: 9 credits in Communication and permission of instructor.

COMM 474 CORPORATE/INSTRUCTIONAL VIDEO
Students will study the aesthetic and practical aspects of producing videotapes to instruct or persuade in educational and business environments. Students will learn project planning, scripting, production, and post-production techniques, and will produce videotape projects. Prerequisite: JRN 302 or permission of instructor. Alternate years

COMM 475 PERSUASION
Contemporary approaches to persuasion theory and an examination of past and current persuasive efforts. Research, writing, and speaking required. Prerequisites: two courses in Communication and permission of instructor. Fall, alternate years
COMM 476 GROUP INTERACTION
Group dynamics, interaction, problem-solving, and leadership. Case study, analysis, and research are required. Prerequisites: one course in Communication, or permission of instructor. Spring

COMM 477 ETHICS IN COMMUNICATION
Ethical values as they apply to interpersonal communication, public speaking, business and professional communication, persuasive techniques, and group interaction. Students develop methods of ethical analysis through discussion, lecture, experiential activities, observation, case studies, and research papers. Prerequisites: COMM 175 and COMM 275, or permission of the instructor. Fall

COMM 479 SENIOR PROJECT
An individual research or application project for Communication majors. Students will design and implement a project which will complete their study of Communication. Prerequisites: COMM 175 and COMM 376 or JRN 310 or PHIL 350 or FILM 355, and permission of instructor. Fall, Spring

COMM 490 ADVANCED SPECIAL TOPICS
An exploration of areas not covered by the regular curriculum. Content depends on available faculty. May be repeated for credit.

COMM 495 SEMINAR
Intensive study of a particular Communication theme or topic. May be repeated for credit as topics change. Prerequisites: A COMM course related to seminar topic and junior standing, or permission of instructor.

COMM 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an issue, problem, or topic related to Communication. May be repeated for a total of 6 credits. Prerequisites: junior standing and permission of instructor.

Computer Science

CS 101 INTRODUCTION TO COMPUTER INFORMATION PROCESSING
An introductory course in the academic use of computers. Includes Internet, e-mail, the Information Highway, information resources, components for student computer systems, the campus computing environment, computer operation fundamentals, computer ethics and the law, and selective software applications. Not open to students who have taken CS 102. Fall, Spring, Summer

CS 102 TECHNOLOGY IN TEACHING
An introductory course in the use of technology, including computers. Includes the Internet, e-mail, information resources, components of computer systems and operation fundamentals, computer ethics and the law, and selective software applications. Prerequisite: Enrollment in ESEC program. Not available to students who have taken CS 101.

CS 110 COMPUTER WORKSHOP
1 credit
Computer software applications. Not available for General Education credit. May be retaken with permission of instructor.

CS 140 COMPUTER PROGRAMMING I
4 credits
Introduction to problem-solving methods and algorithm development using the latest programming language. Emphasizes good programming techniques for designing, coding, debugging, and documenting programs. Fall, Spring, Summer

CS 150 WEB PAGE CONSTRUCTION I
Preliminary course in web page design using HTML and other web page development software. Course covers looking critically at the design of web pages, learning the basics of HTML and how programming can aid in the creation of HTML web pages. Additional topics may be covered. Prerequisite: CS 101 or CS 102 or CS 140. Annually

CS 160 PC HARDWARE FUNDAMENTALS
A course in the general interaction of a microcomputer system: hardware, operating system, and application software. For people who will purchase, support, or maintain PC systems. Content will reflect current hardware, software, and Internet standards. Prerequisite: CS 101, CS 102, or CS 140. Not available to students who have taken CS 161. Fall, Spring

CS 161 MICROCOMPUTER SYSTEMS
1 credit
A course in usage of Macintosh computer systems, including hardware, operating systems, and limited application software in an educational setting. Prerequisite: CS 101, CS 102, or CS 140. Fall

CS 169 INTRODUCTION TO ISERIES 400
Introduction to the operations of the iSeries 400 midrange computer system. Topics include User Interface, displays, online help, object management, object concepts, CL commands, message handling, security, authorization, work management, and job control of input, output, and batch job queries. Annually

CS 170 ISERIES SYSTEMS DEVELOPMENT
An introduction to the basic architecture, facilities, and tools of the iSeries Midrange Computer. Covers CL syntax, spool file concepts, SEU, PDM, SDA, Query400, DFU, DDS, CPYF, database concepts including physical and logical files, Operations Navigator, and basic CL programming. Prerequisite: a C or higher grade in CS 140 or CS 169, or permission of instructor. Fall, Spring

CS 185 COMPUTER PROGRAMMING II
4 credits
Extends the CS 140 concepts to include arrays, methods, sorting, searching, dynamic memory, objects, and self-referencing objects. Prerequisite: a C or higher grade in CS 140. Fall, Spring

CS 205 ELEMENTARY VISUAL BASIC
An introduction to designing a windows interface for a desktop computer. Students will learn to program in an event-driven environment which integrates visual design with functional and
structured programming. Applications created are windows programs. Prerequisite: C or higher grade in CS 185. Fall, Spring

CS 220 COBOL
Introduction to the business-oriented language COBOL. Covers the reading and writing of data manipulation including search and sort routines; table creation and processing; and processing including master/transaction file updating. Prerequisite: CS 170 or C or higher grade in CS 185. Fall, even years

CS 221 ADVANCED COBOL
Introduces the concepts of interactive COBOL programming. Course covers table and array processing, sub-file techniques, and screen processing. Students are taught structured programming techniques to create modularly functional programs. Prerequisite: C or higher grade in CS 220. Spring, odd years

CS 230 RPG IV
Covers concepts and programming techniques of RPG IV. Covers file, data, and calculation specifications, command structure, looping constructs, subroutines, physical and logical file creation, file access, record manipulation, interactive applications, and file maintenance. Prerequisite: CS 170 or C or higher grade in CS 185 or permission of instructor. Fall

CS 231 ADVANCED RPG IV
Covers RPG IV advanced topics, including advanced interactive techniques, table and array processing, subfiles, using the CALL statement, subprocedures, passing data between programs, APIs, and using data areas and data queues. Prerequisite: C or higher grade in CS 230. Spring, even years

CS 260 COMPUTER USER SUPPORT
Introduction to computer user support. Topics covered include end user support, training, help desk operation, customer support, and troubleshooting. Prerequisite: CS 101, CS 102, or CS 140.

CS 265 ASSEMBLY LANGUAGE
Introduction to programming at the lowest software level using assembly language. Proper use of registers, basic CPU operations, and the efficient use of low-level system resources are emphasized. Some digital logic concepts may also be introduced. Prerequisite: C or higher grade in CS 185. Fall

CS 280 DATA STRUCTURES
Develops discipline in program design especially for larger programs. Study of data organization through stacks, queues, linked lists, pointer type files, binary trees. Instruction on computer management of data. Course work done in C language. Prerequisite: C or higher grade in CS 185. Fall

CS 290 SPECIAL TOPICS
1–3 credits
Elementary topics as determined by changes taking place in the discipline. Repeatable as topics change. Prerequisite: minimum of 6 credits in CS. Fall, Spring

CS 293 SUPERVISED FIELD EXPERIENCE
1–3 credits
Allows students to participate in field experience, combining theory with practice. Prerequisites: 6 credits in CS and permission of instructor. May be repeated. However, the total number of credits earned in CS 293 and CS 493 may not exceed 9. Fall, Spring, Summer

CS 294 COOPERATIVE EDUCATION
1–6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placement arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

CS 298 INDEPENDENT STUDY
1–6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

CS 305 COMPUTER USE IN EDUCATIONAL SETTINGS
Examines practical uses of technology in various educational settings. Discussion and study of effective computer usage practices. Prerequisites: Teacher Certification students and CS 280 or CS 185 and permission of instructor. Annually

CS 310 COMPUTER ARCHITECTURE
Explores fundamental concepts of computer architecture, including basic logic elements, binary arithmetic, CPU design, and ALU design. May also include topics such as hardware compilation, microcode, content-addressable memories, and parallel architectures. Prerequisite: CS 280. Spring

CS 320 OPERATING SYSTEMS
Operating systems programming techniques are examined. Areas of concentration are multiprogramming, managing memory, communicating with input/output devices, synchronizing and communicating with processes, managing time, processing various classes of interrupts, and scheduling the processor. Command languages and utility usage covered. Includes UNIX and Windows techniques. Prerequisite: CS 280. Spring

CS 340 INTERNET PROGRAMMING
The art and science of programming for WWW Internet applications from a client–side perspective. Basic and advanced HTML will be covered, along with Java and possibly some CGI scripting. Some experience with the Internet and UNIX usage is desirable. Prerequisite: CS 280. Fall

CS 350 SYSTEMS ANALYSIS
Introduction to fundamentals of systems analysis and design. Discusses the role of the systems analyst, with emphasis on written and oral communication, and the life cycle concept in business systems. Emphasizes structured design techniques. Requires detailed systems development case study. Prerequisites: CS 220, CS 280, or CS 185; MGT 101 and MGT 213; and permission of instructor. Fall, alternate years.
CS 360 DATA BASE MANAGEMENT
Theoretical foundation of modern data base systems concentrating on practical use of relational data base management systems to model, design and implement business and commercial systems. Does not use any specific language. Includes SQL, normalization, and rational algebra. Prerequisite: CS 280. Fall

CS 362 ISERIES 400 DBMS/SQL
Course includes DB2 competencies, DDS, Physical/Logical files and SQL. Manipulating data to extract required information using database manager software. Topics: designing a database, creating it, loading data, and access, plus relational theory, referential integrity, joining, indexing, triggers, and constraints. Prerequisites: CS 170 and one of the following: CS 280 or CS 220 or CS 230. Annually

CS 367 ISERIES 400 CL PROGRAMMING
Prepares students with an understanding of Control Language (CL) programming message handling, and debugging techniques. Students also introduced to advanced techniques such as OPNQ IQRYF creating custom commands and applying contextual help to those unique commands. Prerequisites: CS 170 and CS 280, or permission of instructor. Annually

CS 370 DECISION SUPPORT SYSTEMS
Study of managers’ computer-based decision support activities. Stresses quantitative methods currently used with computer-based systems, such as linear programming and statistical methods, simulation, and modeling. Prerequisites: CS 280 or CS 185, MGT 101 and MGT 213, MATH 120 and MATH 141, and permission of instructor. Fall, alternate years

CS 385 DESIGN AND ANALYSIS OF ALGORITHMS
Design and analysis of algorithms. Analysis will concentrate on using time and space complexity to compare implementations of an algorithm. Design will consist of learning a selection of tools for algorithmic problem solving such as divide-and-conquer, the greedy method, and dynamic programming. Prerequisite: CS 280. Spring

CS 390 METHODS: COMPUTER EDUCATION
Effective teaching skills, including lesson/unit planning, execution, classroom management, interpersonal relationships, and professional role development. Also covers general teaching strategies and curriculum planning. Prerequisites: CS 280 and admission to Teacher Education.

CS 391 METHODS: FIELD EXPERIENCE
Provides an opportunity for students to plan, teach, and evaluate lessons and units in a K-12 environment; apply knowledge of students and the school environment; and understand the role of computer technology education within the school and district curriculum. Prerequisite: CS 390.

CS 405 ADVANCED VISUAL BASIC
The study of event-driven applications which will lead toward object, class, and collection programming techniques, multiple-document interface, OLE controls, database connections, ActiveX component development, and web connections. Prerequisite: C or higher grade in CS 205. Spring

CS 407 ISERIES 400 VISUAL RPG
Visual Age RPG (VARPG) is IBM’s programming RPG personal computer (PC) development environment. Course covers development and programming of client/server applications for the WWW using RPG IV Syntax. Prerequisite: CS 231. Occasionally

CS 410 ADVANCED PROGRAMMING
The study of advanced programming techniques of timely interest. Topics may include object-oriented techniques, special-purpose languages, or advanced design techniques. Continued development of problem-solving and programming skills. Prerequisite: CS 280. Spring

CS 420 ISERIES 400 VISUAL JAVA
Visual Age JAVA is IBM’s programming JAVA personal computer (PC) development environment. Course covers development and programming of client/server applications for the web using JAVA. Prerequisites: CS 170 and CS 280. Fall

CS 421 WEB SERVLETS
Course covers development and creation of servlets, applets running in a web server environment, using IBM’s Visual Age JAVA. Prerequisite: CS 340 or CS 410. Spring

CS 430 PRINCIPLES OF PROGRAMMING LANGUAGES
Theoretical foundations of modern programming languages, concentrating on topics that aid in the analysis and evaluation of programming languages. Probable topics include data types, control structures, abstraction, parameter-passing, variables, and strong typing. Prerequisite: CS 280. Alternate years

CS 440 PROJECT DEVELOPMENT AND MANAGEMENT
Combines skills of programming, systems analysis, data base, and decision support, and puts them into practice through the analysis, design, and implementation of a large group automation project, emphasizing classic project control principles of planning, coordination, communication, and estimation. Prerequisite: CS 350. Alternate years

CS 450 TELECOMMUNICATIONS
An introduction to data communications concepts and terminology. Telecommunications designs, distributed information systems, the communications environment, protocols, regulatory issues, pricing, and management. Prerequisite: CS 280. Annually

CS 455 TCP/IP
Course provides basic knowledge about the TCP/IP protocol suite and services. Protocols from the different layers in the TCP/IP protocol stack are discussed, such as ARP, RARP, ICMP, IP, TCP, UDP, FTP, TELNET, HTTP, SMTP, RLP, and OSPF. A number of hands-on exercises are included. Prerequisite: C or higher grade in CS 280, or permission of instructor. Fall

CS 490 ADVANCED SPECIAL TOPICS
1-3 credits
Advanced topics as determined by changes taking place in the discipline. Repeatable as topics change. Prerequisite: minimum of 12 credits in CS. Fall, Spring, Summer
CS 493  ADVANCED SUPERVISED FIELD EXPERIENCE
1-3 credits
Allows students to participate in advanced field experiences, combining course knowledge and theory with practice. Prerequisites: 12 credits in CS and permission of instructor. May be repeated; however, the total number of credits earned in CS 293 and CS 493 may not exceed 9. May not be applied to the upper-level CS electives requirement. Fall, Spring, Summer

CS 494  ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: CS 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

CS 495  SEMINAR
Provides students with the opportunity to do a significant research project. A paper is required in a current computer science field. Prerequisites: 9 credit hours of CS 300- and 400-level courses. Fall, Spring

CS 498  INDEPENDENT STUDY
1-6 credits
Individual research into selected topics in computer studies under the direction of a faculty member. Prerequisites: six credits in CS and permission of instructor. May be repeated to a total of 6 credits. A maximum of 3 credits may be applied to the upper-level CS elective requirement.

Economics

ECON 100  INTRODUCTORY ECONOMICS
Introduction to the “economic” way of thinking. Selected topics are used to illustrate the application of economic reasoning to real-world phenomena. Topics are examined in a historical context where appropriate. This course does not count toward the Economics major or the Management department competency in economics. Fall, Spring

ECON 201  MACROECONOMICS
An introduction to the functioning of the United States economy as a whole and the effect of government policies upon its performance. Fall, Spring

ECON 202  MICROECONOMICS
An introduction to the functions of the component parts of the economy. An analysis of the consumer, industry, markets, and the use of resources. Fall, Spring

ECON 290  SPECIAL TOPICS
Economics survey course for non-majors. Includes topics not covered in other listed courses, e.g., current and historical economic issues. This course may not be used to satisfy requirements for the minor in Economics. May be repeated as topics change.

ECON 298  INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

ECON 301  INTERMEDIATE MACROECONOMICS
Concepts and measurement of national income and expenditures, employment, interest rates, and price levels; alternative approaches to national income determination and economic growth; monetary and fiscal policy. Prerequisites: ECON 201 and ECON 202. Fall

ECON 302  INTERMEDIATE MICROECONOMICS
Concentrates on market models, income distribution, and general equilibrium. Prerequisites: ECON 201 and ECON 202. Spring

ECON 320  POLITICAL ECONOMY
Surveys a selected range of alternative approaches to economic theory and their respective assessments of contemporary economic issues. Particular attention is paid to comparing the theoretical assumptions and policy conclusions of these approaches with those of orthodox economic theories. Prerequisites: ECON 201 and ECON 202. Fall, to be announced

ECON 329  LABOR ECONOMICS
Human labor resources and their utilization, with particular reference to labor unions, collective bargaining, and related public policies. Labor history and the issues of employment, production, price levels, and patterns of income distribution. Prerequisites: ECON 201 and ECON 202. Fall

ECON 340  ENVIRONMENTAL ECONOMICS
Detailed evaluation of policy alternatives for environmental protection with regard to other economic goals. Prerequisite: ECON 202. Fall

ECON 350  RACE, CLASS, AND GENDER
Contrasts Neoclassical, institutionalist, and radical perspectives on economic topics of race, class, and/or gender. Specific topics may include theories and empirical evidence on: discrimination, the household and social reproduction, income distribution, and the role of the state. Prerequisite: ECON 100, 201, or 202. Fall

ECON 361  PUBLIC FINANCE
Basic problems underlying public revenues and public expenditures; budgetary theory and procedures; tax theory and reform; debt management policy; fiscal policy at both federal and state levels. Prerequisites: ECON 201 and 202. Spring

ECON 363  MONEY AND BANKING
An analysis of the structure and function of monetary and banking systems with special reference to contemporary monetary theories, problems, and policies. Prerequisites: ECON 201 and 202. Fall or Spring
ECON 375 MARXIAN ECONOMICS
A detailed examination of the economic theories of Marx and later economists within the Marxian school, including Marxian critiques of capitalist development and the contribution of this school to contemporary applications in socialist economics. Prerequisites: ECON 201 and ECON 202. Spring, to be announced

ECON 415 INTERNATIONAL AND DEVELOPMENTAL ECONOMICS
Examines international trade and finance, world political economy, and the economics of developing nations in the 20th century. Balance of payments, international monetary problems, the evolving interdependence of developed and less developed countries, and the specific economic problems of the latter are also studied. Prerequisites: ECON 201 and ECON 202. Fall or Spring, to be announced

ECON 420 ECONOMETRICS
The theory of economic model building, both determinate and stochastic, together with the essential analytical methods. Where possible, these models are used to analyze current real-world economic conditions. Prerequisites: ECON 201, ECON 202, and MATH 141. Spring, to be announced

ECON 450 HISTORY OF ECONOMIC IDEAS
A history of economic ideas from the Middle Ages to the present, including readings of classic works with reference to the history of economic conditions that helped engender these ideas. Prerequisites: ECON 201 and ECON 202. Spring

ECON 455 U.S. ECONOMIC HISTORY
The development of the U.S. economy from its colonial origins to modern times, including the slave system, ties with Europe, and the subsequent development of industry, banking, and commerce. Prerequisites: ECON 201 and ECON 202. Fall or Spring, to be announced

ECON 490 ADVANCED SPECIAL TOPICS
Topics not covered in other listed courses; e.g., current and historical economic issues, student group research projects, student-and faculty-initiated topics, etc. Prerequisites: ECON 201 and 202 and permission of instructor.

ECON 491 RESEARCH PROJECT
A term project, scheduled for fall semester of senior year, involving original research of a subject approved by the Economics faculty. Fall

ECON 498 INDEPENDENT STUDY
1-6 credits
Individual research on selected topics in economics under direction of a faculty member. Prerequisites: ECON 201 and ECON 202 and permission of instructor. May be repeated to a total of 6 credits.

Education/Special Education/Early Childhood
Courses with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

ESEC 100 INTRODUCTION TO TEACHING
1 credit
Orientation to the teaching profession as a career choice. Current issues are explored through the voices and stories of teachers. KSC program requirements, teacher certification, and development of professional portfolios are introduced. Not open to juniors or seniors except by permission. Fall, Spring

ESEC 150 DEVELOPMENT, EXCEPTIONALITY AND LEARNING I*
Development, learning, and diversity of children (birth through the primary grades) from developmental, special educational, and multicultural perspectives. Focus on interaction among children, families, and schools. Prerequisite: ESEC 100 (must be taken prior to or concurrently with ESEC 150). Fall, Spring, Summer

ESEC 220 WOMEN AND EDUCATION
An exploration of women's quest for equal educational opportunities as students and teachers. Historical and current issues are analyzed. Biographies, literature, and texts are researched. Spring

ESEC 250 DEVELOPMENT, EXCEPTIONALITY AND LEARNING II
Development, learning, and diversity of children and adolescents (intermediate grades through high school) from developmental, special educational, and multicultural perspectives. Shifts perspectives from college student to beginning educator using a professional framework. Prerequisite: ESEC 100 and ESEC 150. Fall, Spring, Summer

ESEC 281 EMERGING/EVOLVING LITERACY*
Practical approaches to creating literacy environments in which children can grow and develop as listeners, speakers, readers, and writers. Emphasis on addressing the diverse needs of learners using curricular and technological adaptations across the curriculum. Prerequisite: Admission to Teacher Education. Fall, Spring

ESEC 282 LITERACY IN THE CONTENT AREAS*
Selection of effective practices based on characteristics of adolescents as readers, writers, speakers, and listeners. Emphasis on applying study skills, research approaches, and time/task management in content areas, and addressing the diverse needs of learners using curricular and technological adaptations. Prerequisite: ESEC 150. Fall, Spring

ESEC 290 SPECIAL TOPICS IN EDUCATION
1-3 credits
Study of a selected topic in education. May be repeated as topics change. Prerequisite: Permission of instructor. Occasionally
ESEC 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

ESEC 320 EDUCATION ENVIRONMENTS/PRACTICES
Teachers' roles, tasks, and responsibilities in designing, organizing, and managing delivery of instruction. Preservice teachers will examine authentic assessment (portfolio), uses of technology, structure of lessons and thematic units, and curriculum adaptations to accommodate diverse learners. Prerequisite: admission to Teacher Education. Fall, Spring, Summer

ESEC 381 EARLY CHILDHOOD METHODS (BIRTH-AGE 8)
6 credits
Developmentally appropriate content, materials, and methods of instruction for children birth to grade three. Explores various approaches to instruction, including adaptation for diverse learners, with emphasis on implementation during field placement. Co-requisites: ESEC 386, 387. Prerequisites: admission to Teacher Education, ESEC 281 and 320 with grade of C or better, MATH 171, 2.5 GPA for ESEC courses, academic major, and overall. Fall, Spring, Summer

ESEC 383 ELEMENTARY METHODS (K-8)
6 credits
Developmentally appropriate content, materials, and methods of instruction for children grades kindergarten through grade eight. Explores various approaches to instruction, including adaptation for diverse learners, with emphasis on implementation during field placement. Co-requisites: ESEC 386, 387. Prerequisites: ESEC 281 and 320 with a grade of C or better, MATH 172, 2.5 GPA for ESEC courses, academic major, and overall. Fall, Spring

ESEC 384 METHODS: MIDDLE SCHOOL
Developmentally appropriate content, materials, and methods of instruction used with children in grades six through nine. Exploration of a variety of approaches to interaction and instruction, including adaptations for diverse learners, with emphasis on implementation in field placement. Prerequisite: admission to Teacher Education, ESEC 320. Fall

ESEC 385 METHODS: SECONDARY
Developmentally appropriate content, materials, and methods of instruction used with children in grades 9-12. Exploration of a variety of approaches to interaction and instruction, including adaptations for diverse learners, with emphasis on implementation in field placement. Prerequisite: admission to Teacher Education, ESEC 320. Fall

ESEC 386 METHODS: FIELD EXPERIENCE
Participation in a classroom applying the methods, content, and materials covered in the appropriate methods course. Students develop an awareness of the teacher as a professional and of the requirements, numerous duties, and effort necessary for effective teaching. Corequisite: Methods. Prerequisite: admission to Teacher Education. Fall, Spring

ESEC 387 CREATING SOCIAL CONTEXTS FOR LEARNING
Effects of social/emotional/behavioral development on children and adolescents and their ability to learn. Focus on prevention and intervention strategies to support learning success. Corequisite: Methods. Prerequisite: admission to Teacher Education. Fall, Spring

ESEC 450 SEMINAR: EDUCATIONAL PRINCIPLES
Current social issues affecting education. Overview of influence of historical and philosophical perspectives on education. Focus on ethics, legal, and professional identity issues. Corequisite: Student Teaching. Fall, Spring

ESEC 460 STUDENT TEACHING
12 credits
Full-time placement in educational setting(s) appropriate to intended certification. Supervision provided by college supervisor and field-based professional towards mastery of principles, attitudes, and techniques for successful teaching. Graded Pass/Fail. Prerequisite: permission of Teacher Education Office. Fall, Spring

ESEC 465 STUDENT TEACHING
6 credits
Full-time placement in educational setting(s) appropriate to intended certification. Supervision provided by college supervisor and field-based professional towards mastery of principles, attitudes, and techniques for successful teaching. Graded Pass/Fail. Prerequisite: permission of Teacher Education Office. Fall, Spring

ESEC 490 ADVANCED SPECIAL TOPICS IN EDUCATION
1-3 credits
Study of a selected topic in education at an advanced level. May be repeated as topics change. Prerequisite: Permission of instructor. Occasionally

ESEC 495 SEMINAR
1-3 credits
Group study of topics in selected area of education. Elective credit only. Prerequisites: senior status and permission of instructor. Fall, Spring

ESEC 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an educational problem encountered in a school or community. Prerequisite: permission of instructor. May be repeated to a total of 6 credits. Fall, Spring

ESEC 560 INTERNSHIP: TEACHING
12 credits
A clinical experience in which students who are under contract within a school district or agency acquire fuller understanding of the principles, attitudes and techniques related to a successful teaching career. Prerequisite: permission of Teacher Education Office. Fall, Spring
ESEC 565  INTERNSHIP: TEACHING  
6 credits  
A clinical experience in which students who are under contract within a school district or agency acquire fuller understanding of the principles, attitudes and techniques related to a successful teaching career. Prerequisite: permission of Teacher Education Office. Fall, Spring

ESEC 595  SEMINAR  
1-3 credits  
Group study of topics in selected area of education. Elective credit only. For graduate students, or seniors with permission of divisional dean. Fall, Spring

ESEC 601  RESEARCH STRATEGIES IN EDUCATION  
Strategies for identifying, developing, analyzing, and evaluating educational interventions. Emphasis on accessing and evaluating resources for intervention ideas. Introduction to statistical concepts related to assessment, professional ethics. Fall, Spring

ESEC 602  STUDENTS, FAMILIES, SCHOOLS, AND SOCIETY  
2 credits  
Cross-disciplinary course emphasizing current issues in public education and professional roles in schools. Team building and collaboration methods emphasized together with social responsibility and ethics. Fall

ESEC 661  INTEGRATING READING AND LANGUAGE ARTS  
This course will address teaching and learning strategies for integrating all the language arts areas: reading, writing, listening, and speaking. Prerequisite: a reading course, or permission of instructor.

ESEC 690  ADVANCED SPECIAL TOPICS IN EDUCATION  
1-3 credits  
Study of a selected topic in education at the graduate level. May be repeated as topics change. Prerequisite: Permission of instructor. Occasionally

ESEC 698  INDEPENDENT/DIRECTED STUDY  
1-3 credits  
Intensive study of an educational problem encountered in a school or community. Offered as Directed Study if designed by the faculty member or Independent Study if proposed by the student. Prerequisite: permission of instructor. Fall, Spring

ESEC 699  CAPSTONE  
Development of a comprehensive case study of a student, classroom, or school in collaboration with students in each of the specialty areas. Prerequisites: Admission to graduate program and 30 hours of specialty area course work. Fall

Education: Curriculum and Instruction

ESECCI 610  PORTFOLIO DEVELOPMENT AND ASSESSMENT  
1 credit  
Portfolio development procedures and assessing strategies. Requires C & I students to begin development of professional portfolio, including plan for professional development aligned with national standards to be achieved through M.Ed. study. Prerequisite: admission to graduate program or permission of instructor. Fall

ESECCI 621  DESIGN AND REFORM OF AMERICAN EDUCATION  
Advanced study through original sources of philosophies of American education and reform movements. Emphasis on current reform efforts and strategies. Prerequisite: admission to graduate program. Summer

ESECCI 630  LIFE SPAN DEVELOPMENT  
Examination of human development from conception through the aging process. Emphasis on understanding the physical, cognitive, language, social, and emotional domains as well as ecological and cultural context. Contemporary theories of development and learning are explored and applied to educational settings to define developmentally appropriate practice. Study of individuals with special needs is included. Prerequisite: admission to graduate program or permission of instructor. Fall

ESECCI 631  ASSESSMENT AND EVALUATION IN SCHOOLS  
Focus on understanding the diagnostic process and developing the necessary skills for collaboration in a team setting with parents and professionals. Includes formal and informal assessment approaches. Prerequisite: admission to graduate program. Fall

ESECCI 631  ASSESSMENT AND EVALUATION IN SCHOOLS  
Focus on understanding the diagnostic process and developing the necessary skills for collaboration in a team setting with parents and professionals. Includes formal and informal assessment approaches. Prerequisite: admission to graduate program. Fall

ESECCI 641  APPLIED LEARNING THEORY  
Study of contemporary learning theories and translations of theory to educational practice. Learning styles, multiple intelligence theory, brain behavior research included. Prerequisite: admission to graduate program and ESECCI 631 or permission of instructor. Spring

ESECCI 651  CURRICULUM DEVELOPMENT  
Examination of different models of curriculum development. Includes study of context, delivery, standards and frameworks in all academic areas. Prerequisite: admission to graduate program, ESECCI 631, ESECCI 641, or permission of instructor. Summer

ESECCI 661  COLLABORATION AND SERVICE DELIVERY OPTIONS  
Examination of the cooperative nature of the roles of classroom teachers and special educators and implications for delivering instruction and related support services. Emphasis on develop-
opring working relationships. Course addresses collaboration
skills for participating in change efforts, working with families,
pre-referral, IEP development, co-teaching, and supervision of
paraprofessionals. Prerequisite: admission to graduate program
or permission of instructor, ESECCI 610, ESECCI 621, ESECCI
631. Cross-listed with ESECSP 661. Spring

ESECCI 686 FIELD PLACEMENT
no credit
Direct work in classrooms applying content, skill, and ma-
terials learned in methods course(s). Emphasis on acquiring
understanding of the role of the teacher in implementing
curriculum and accommodating diverse learners. Hours and
activities documented in a professional portfolio. Corequisite:
appropriate undergraduate methods course. Prerequisite:
 admission to graduate program. Fall, Spring

ESECCI 687 CLASSROOM/INSTRUCTIONAL
MANAGEMENT
Study of approaches to organizing and maintaining a classroom
environment that supports student learning. Emphasis on de-
veloping a comprehensive approach to managing instruction
in cognitive, social, and physical domains. Includes strategies
for successful inclusion of students with special needs. Pre-
 requisite: admission to graduate program. Fall

ESECCI 696 STUDENT TEACHING
15 credits
Full-time placement in educational setting(s) appropriate to cer-
tification sought. Supervision provided by college supervisor and
field-based professional. Development of principles, attitudes,
and techniques for successful teaching. Seminar included. Within
this experience students will complete a project that synthesizes
the entire program. Graded Pass/Fail. Prerequisite: Successful
completion of all program requirements in the Curriculum &
Instruction Option Certification-WEL Track. Spring

ESECCI 697 INTERNSHIP
Supervised practice related to focus of student’s professional
portfolio development. Prerequisite: admission to graduate
program and completion of all other C & I Option course
requirements. Spring

ESECCI 698 INDEPENDENT/DIRECTED STUDY
1-3 credits
Intensive study of an educational problem encountered in a
school or community. Offered as Directed Study if designed
by the faculty member or Independent Study if proposed by
the student. Prerequisite: permission of instructor.

Education: Educational
Leadership

ESECEL 610 PORTFOLIO DEVELOPMENT
AND ASSESSMENT
1 credit
Portfolio development procedures and assessment strategies.
Requires Educational Leadership students to begin develop-
ment of professional portfolio, including plan for professional
development achieved through M.Ed. study. Prerequisite: ad-
mision to graduate program or permission of instructor. Fall

ESECEL 621 ORGANIZATIONAL LEADERSHIP
Leadership theory and organizational theory and development
as they relate to the school principal’s instructional role. Special
emphasis on vision and mission, group process, collaboration
with parents, community members and other professionals
including special educators, change and the change process,
motivation, decision making, problem solving and conflict
management. Prerequisite: admission to graduate program
or permission of instructor. Fall

ESECEL 622 SCHOOL EFFECTIVENESS
AND REFORM
Emphasis on current school reform efforts and change strate-
gies. Processes and procedures for program development and
evaluation, and school effectiveness. A study of how to improve
school culture and instructional climate. Prerequisite: ad-
mision to graduate program or permission of instructor. Summer

ESECEL 631 STAFF SELECTION,
SUPERVISION AND EVALUATION
Recruiting, inducting, and mentoring school personnel. Obser-
vation methods and conferencing techniques are prac-
ticed in the process of supervision and evaluation of school
personnel. Related legal and personnel issues are discussed.
Prerequisite: admission to graduate program or permission
of instructor. Spring

ESECEL 641 SCHOOL LAW
Legal rights, duties, and responsibilities of school personnel,
school property, teaching contracts, continuing contracts, per-
sonnel practices, and school safety are included in this study
of education law. Special Education and ethical principles will
be emphasized. Prerequisite: admission to graduate program
or permission of instructor. Spring

ESECEL 652 BUDGET AND
FACILITY MANAGEMENT
Study of and participation in the school budget process. Em-
phasis will be placed on budget development and manage-
ment, state regulations and federal influences. Development
of health, safety, curricular and co-curricular perspectives in
building and facility management. Prerequisite: admission to
graduate program or permission of instructor.

ESECEL 697 PRINCIPAL INTERNSHIP
A supervised practical experience in educational leadership
with seminar sessions addressing six national standards for
educational leaders. This internship is to include participation
in two levels of schooling: elementary, middle, or high school.
Prerequisite: Completion of or current enrollment in required
ESECEL courses or permission of instructor. Program requires
the course be repeated for a total of six credits. Fall, Spring

ESECEL 698 INDEPENDENT/DIRECTED STUDY
1-3 credits
Intensive study of an educational problem encountered in a
school or community. Offered as Directed Study if designed
Education: School Counselor

ESECSC 610 PROGRAM ORIENTATION/PORTFOLIO ASSESSMENT
1 credit
Focus of course is to orient students to School Counseling program and profession of School Counseling, to create a strong cohort group, and to begin assessment of student strengths and challenges. Prerequisite: admission to graduate program or permission of instructor. Fall

ESECSC 622 SCHOOL COUNSELING: ROLES, RESPONSIBILITIES, AND INTERVENTIONS
Examines role of the school counselor in relation to philosophy and curriculum of school. Emphasis on defining professional responsibilities and relationships among counselor, teacher, administrator, student, and family in delivery of school counseling services. Prerequisites: admission to graduate program or permission of instructor and ESECSC 610 (may be taken concurrently) Fall

ESECSC 626 PROFESSIONAL SEMINAR
This course integrates a focus on personal and professional issues in an environment of continuous feedback and self-reflection. Content areas focus on critical issues in school counseling. Prerequisite: admission to graduate program or permission of instructor. Corequisite: ESECSC 610. Fall

ESECSC 631 ASSESSMENT AND EVALUATION FOR SCHOOL COUNSELORS
Focus on theory and practice of assessment for school counselors. Includes formal and informal assessment approaches, as well as how these approaches will inform effective interventions. Emphasis on developing the necessary skills for collaboration in a team setting with families and professionals. Prerequisites: ESECSC 610 and ESECSC 622. Spring

ESECSC 641 CAREER DEVELOPMENT
Explores career development theories. Examines and evaluates career materials as they relate to school philosophy and curriculum. Prerequisites: admission to graduate program and ESECSC 622; for nonmatriculated students, permission of instructor. Summer

ESECSC 651 METHODS AND SKILLS OF COUNSELING
Emphasizes the practice of ethical counseling skills integrating developmental, multicultural and ecological perspectives. Includes role-playing, videotaping, and analysis/evaluation by self, peers, and instructor. Prerequisites: admission to graduate program or permission of instructor, and ESECSC 610 (may be taken concurrently). Fall

ESECSC 652 GROUP COUNSELING IN SCHOOLS
Introduces skills, knowledge base, and practice of group counseling in schools. Focuses on ethical issues, developmental perspectives, working with diverse populations; current research. Includes experiential components including co-facilitation of a group in a school. Prerequisites: ESEC 601 (may be taken concurrently), ESECSC 610, 622, 651.

ESECSC 662 SCHOOL COUNSELING: THEORETICAL FOUNDATIONS
An exploration of major theoretical approaches to school counseling. Emphasis is on the formulation of perspectives on emotional growth and development, as well as the helping relationship. Includes case studies that illustrate strategies for intervention from an ecological perspective. Prerequisites: ESECSC 610, 622. Spring

ESECSC 696 INTERNSHIP: ELEMENTARY SCHOOL
Weekly seminar in conjunction with supervised practice in required, semester long, minimum 250-hour elementary/middle school counseling internship. Cannot be taken in conjunction with ESEC 697. Prerequisites: Completion of all required school counseling program courses (ESEC 699 and electives may be taken concurrently) and permission of School Counseling faculty. Fall, Spring

ESECSC 697 INTERNSHIP: SECONDARY SCHOOL
Weekly seminar in conjunction with supervised practice in required, semester long, minimum 250-hour elementary/middle school counseling internship. Cannot be taken in conjunction with ESEC 696. Prerequisites: Completion of all required school counseling program courses (ESEC 699 and electives may be taken concurrently) and permission of School Counseling faculty. Fall, Spring

ESECSC 698 INDEPENDENT/DIRECTED STUDY
1-3 credits
Intensive study of an educational problem encountered in a school or community. Offered as Directed Study if designed by the faculty member or Independent Study in proposed by the student. Prerequisite: permission of instructor.

Education: Special Education

ESECSP 610 PORTFOLIO DEVELOPMENT AND ASSESSMENT
1 credit
Portfolio development procedures and assessment strategies. Requires students seeking advanced certification in special education to begin development of professional portfolio, including plan for professional development achieved through M.Ed. study. Prerequisite: admission to graduate program or permission of instructor. Fall

ESECSP 612 DEMONSTRATED CERTIFICATION COMPETENCE
18 credits
Students with advanced certification in Learning Disabilities and Emotional and Behavior Disorders obtained in conjunction with the College for Lifelong Learning are awarded 18 credits.
for documented field-based learning experiences. Graduate credit is contingent on completion of required modules and evidence of certification.

**ESECSP 621 CONTEXT FOR SPECIAL EDUCATION**
Exploration of current issues in special education based on historical context of philosophy, legislation, litigation, models of service delivery, and future trends. Prerequisite: admission to graduate program or permission of instructor. Fall

**ESECSP 661 COLLABORATION AND SERVICE DELIVERY OPTIONS**
Examination of the cooperative nature of the roles of classroom teachers and special educators and implications for delivering instruction and related support services. Emphasis on developing working relationships. Course addresses collaboration skills for participating in change efforts, working with families, pre-referral, IEP development, co-teaching, and supervision of paraprofessionals. Prerequisites: admission to graduate program or permission of instructor, ESECSP 610, ESECSP 621, and ESECSP 631. Cross-listed with ESECCI 661. Spring

**ESECSP 697 INTERNSHIP**
Supervised practice related to focus of student’s professional portfolio development. Prerequisites: admission to graduate program, all required ESECSP specialty area courses. Spring

**ESECSP 698 INDEPENDENT/DIRECTED STUDY**
1-3 credits
Intensive study of an educational problem encountered in a school or community. Offered as Directed Study if designed by the faculty member or Independent Study if proposed by the student. Prerequisite: permission of instructor.

**English**

**ENG 101 ESSAY WRITING**
4 credits
Extensive practice in college-level writing and reading. Students will write a variety of papers, including a documented essay, read and respond critically to professional and student writing, and develop critical thinking skills. ENG 101 is a prerequisite for all other English courses. ENG 101 should be completed during the freshman year and is not open to juniors or seniors unless they are transfer students. Fall, Spring

**ENG 202 EXPOSITORY WRITING**
4 credits
Extensive writing and reading of various types of expository essays and other prose forms. Emphasis on stylistic techniques and rhetorical devices. Prerequisite: ENG 101. Fall, Spring

**ENG 203 WOMEN’S WRITING**
4 credits
Focuses on effective rhetorical strategies for communicating women’s experiences, opinions, and knowledge, as well as personal, political, and feminist issues. Prerequisite: ENG 101. Fall

**ENG 204 CREATIVE WRITING**
4 credits
Introduction to the basic strategies and techniques of writing fiction and verse. Assigned exercises, accompanied by readings, discussed in class. Opportunity to develop creative and critical skills through assignments and independent work. Prerequisite: ENG 101. Fall, Spring

**ENG 208 TOPICS IN WRITING**
4 credits
Selected topics in specific areas of creative, nonfiction, professional, or other modes of writing. May be repeated once as topics change. Prerequisite: ENG 101. Annually

**ENG 209 LITERARY ANALYSIS**
4 credits
Designed primarily and required for those intending to major in English, this course concentrates on writing critical essays and analyzing types of narrative, poetry, drama, and experimental texts. Serves to introduce students to literary themes. Prerequisite: ENG 101. All English majors must take ENG 209 before completing 13 credits in English; non-majors who take ENG 209 must do so before completing 75 credits. Fall, Spring

**ENG 220 READINGS IN BRITISH LITERATURE**
4 credits
Examines a particular period or literary movement, or the works of a particular author or group of authors from the British Isles, or a recurring theme in fiction or other literary forms. May be repeated once as topics change. Prerequisite: ENG 101. Fall, Spring

**ENG 240 READINGS IN AMERICAN LITERATURE**
4 credits
An introduction to significant writers of the U.S. and their works, which may include fiction, drama, poetry, and non-fiction prose. May explore a particular theme, period, genre, group of writers. May be repeated once as topics change. Prerequisite: ENG 101. Fall, Spring

**ENG 247 READINGS IN AMERICAN INDIAN STUDIES**
4 credits
An interdisciplinary introduction to American Indian studies through oral/written literature, music, art, history, and spirituality. Usually focuses on a particular culture or geographical area. Prerequisite: ENG 101. Fall
ENGLISH DEPARTMENT

ENG 250  READINGS IN CONTINENTAL LITERATURE
4 credits
Examines literature from Europe. Students read works by authors such as Dante, Christine de Pizan, Cervantes, Mme de Lafayette, Goethe, Flaubert, Dostoyevsky, Beckett, Kafka, and Yourcenar. May be repeated once as topics change. Prerequisite: ENG 101. Fall, Spring

ENG 252  LITERATURE OF THE HOLOCAUST
4 credits
Examines the culture of European Jews before the Holocaust, and the literature that explores the destruction of that culture in World War II. Uses texts by such authors as Ida Fink, Elie Wiesel, Primo Levi, Nelly Sachs, and Jurek Becker. Prerequisite: ENG 101. Spring

ENG 258  SCIENCE FICTION
4 credits
Survey of the characteristic themes and forms of science fiction. Prerequisite: ENG 101. Spring, alternate years

ENG 259  TOPICS
4 credits
Selected topics in literature. May be repeated as topics change. Prerequisite: ENG 101. Annually

ENG 285  GENRE STUDIES
4 credits
Focuses on the development of a specific literary form such as drama, poetry, short story, novel, or essay. Examines structural elements, historical influences, and individual experimentation. May be repeated once as topics change. Prerequisite: ENG 101. Annually

ENG 286  CHILDREN’S LITERATURE
4 credits
Reading and discussion of representative works from the seven genres of children’s literature: traditional, fantasy, modern realism, historical fiction, biography, poetry, and information books. Prerequisite: ENG 101. Fall, Spring
ENG 321 ENGLISH LITERATURE: BEGINNINGS TO 18TH CENTURY
4 credits
Survey of English literature from Anglo-Saxon times to the Enlightenment. Attention to historical and intellectual contexts, as well as development of the English language. Study of various genres: epic, lyric, drama, romance, prose. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 322 ENGLISH LITERATURE: 18TH CENTURY TO PRESENT
4 credits
Survey of major developments in English literature from the rise of Romanticism, the Victorian period, the literature of the two world wars, and the contemporary period. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 323 MEDIEVAL LITERATURE
4 credits
Literary themes and genres in England from 1200 to 1450 (exclusive of Chaucer), with special attention to Continental influences. Representative readings from Layamon to the Pearl Poet and Malory’s tales of King Arthur and his court. Prerequisites: ENG 101 and one 200-level English course. Every third semester, beginning Fall 1999

ENG 324 CHAUCER
4 credits
Major Middle English works from Chaucer’s early dream allegories to later masterpieces Troilus and Criseyde and The Canterbury Tales, studied in context of the poet’s life and times. Prerequisites: ENG 101 and one 200-level English course. Every third semester, beginning Fall 1999

ENG 326 SHAKESPEARE: COMEDIES AND HISTORIES
4 credits
The comedies and histories, with special attention to the development of Shakespeare’s art in Renaissance England. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 327 SHAKESPEARE: TRAGEDIES
4 credits
Emphasizes the growth of Shakespeare’s skill as a tragic poet. Intensive study of the great tragedies. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 328 MILTON
4 credits
A study of Milton’s art as it reflects his life’s changing allegiances – from his first identification as poet-priest to his last as blind-seer. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 329 19TH CENTURY ENGLISH LITERATURE
4 credits
Writers and works best representing the ideals and controversies of 19th-century England from the Romantic Movement to the Victorian Era. Readings in such writers as Wordsworth, Shelley, Keats, Tennyson, Browning, Dickens, and others. Prerequisites: ENG 101 and one 200-level English course. Every third year

ENG 330 STUDIES IN BRITISH LITERATURE
4 credits
Examines a particular author, period, or movement with a focus on the social, intellectual, and literary significance of the works considered. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 341 EARLY AMERICAN LITERATURE
4 credits
Major developments of American literature, culture, and thought from the pre-Columbian period to the 19th century. Emphasis on American Indian oral literature, European visions, the formation of an Anglo-American literary tradition, the Enlightenment, and the American Revolution. Prerequisites: ENG 101 and one 200-level English course. Fall, alternate years, beginning 2000

ENG 342 19TH CENTURY AMERICAN LITERATURE
4 credits
Examines major developments in American romanticism, realism, and naturalism in the context of 19th-century American culture. Emphasis on such writers as Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, Dickinson, Douglass, Stowe, Twain, James, Howells, ‘local color’ authors, Chopin, Crane, and Dreiser. Prerequisites: ENG 101 and one 200-level English course. Alternate years

ENG 343 20TH CENTURY AMERICAN LITERATURE
4 credits
Studies modern and contemporary texts by U.S. writers, with an emphasis on historical, aesthetic, and critical perspectives that link the texts to major movements such as Naturalism, Realism, and Postmodernism. Prerequisites: ENG 101 and one 200-level English course. Every third semester

ENG 344 STUDIES IN AMERICAN LITERATURE
4 credits
Focuses on a particular theme, period, movement, or genre. Emphasis may be aesthetic, historical, or cultural. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Every third semester

ENG 345 BLACK AMERICAN LITERATURE
4 credits
Surveys literary traditions of American blacks, with special attention to relations between oral and literary works, performance and reading, tradition and innovation. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Ralph Ellison, Sherley Ann Williams, Toni Morrison, Zora Neale Hurston. Prerequisites: ENG 101 and one 200-level English course. Fall
ENG 346 TRANSCENDENTALISM 4 credits
Explores American Transcendentalism. Intensive reading and discussion of such writers as Emerson, Thoreau, Margaret Fuller, and Whitman. Prerequisites: ENG 101 and one 200-level English course. Alternate years

ENG 347 MODERN AMERICAN INDIAN LITERATURE 4 credits
Examines the major American Indian writers of the 20th century; emphasizes the “American Indian literary renaissance.” Historical, cultural, and aesthetic contexts are explored. Authors include Momaday, Silko, Welch, Erdrich, Hogan, and Rose. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 350 STUDIES IN CONTINENTAL LITERATURE 4 credits
Examines literature from Europe, with an emphasis on specific topics such as the Renaissance, the Enlightenment, and Modernism. Authors may include Dante, Petrarch, Cervantes, Diderot, Voltaire, Proust, Mann, Kafka, Pirandello, Beckett, Bachmann, Duras, and Tolstoy. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Annually

ENG 360 STUDIES IN WORLD LITERATURE 4 credits
Examines texts from the Ancient World, from Asia, Africa, and the Pacific. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Every third Spring

ENG 370 STUDIES IN LITERATURES OF THE AMERICAS 4 credits
Compares literatures such as those of Canada, the U.S., Central and South America. Attention to topics such as the writer’s voice, interrogation of traditions, the constructions of literary geography. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Alternate years

ENG 381 WOMEN WRITERS 4 credits
Emphasis on the images, forms, contexts that shape women’s literary expression and that identify women’s lives in cultural, social, political spheres. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 390 STUDIES 4 credits
Intensive study of selected topics in literature, language, and culture. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Occasionally

ENG 402 THEORY AND PRACTICE 4 credits
This course examines the critical and theoretical contexts of various genres. Readings will include both theory and the genre under discussion. Students are required to write original work in the genre as well as critical and interpretive essays. May be repeated as topics change. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course. Annually

ENG 405 WRITING MINOR PORTFOLIO 4 credits
Independent selection and intensive revision of writing completed for the writing minor. Students will compile a portfolio under the direction of an English faculty member. May be taken concurrently with another writing minor course. Prerequisites: ENG 101, one 200-level and one 300-level English course, 12 credits completed toward the writing minor, and permission of instructor. Fall, Spring

ENG 410 THEORY 4 credits
Intensive study of a particular school or schools of theory. Topics may focus on poetics, genre study, rhetorical theory, or literary criticism. May be repeated as topics change. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course.

ENG 490 ADVANCED STUDIES 4 credits
Advanced study of selected topics in literature, language, and culture. May be repeated as topics change. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course.

ENG 495 SEMINAR 4 credits
Intensive study in literature, language, and culture. Students are expected to do a significant amount of independent work and to lead portions of the class. May be repeated for credit as topics change. Prerequisites: ENG 101, one 200-level and one 300-level English course, and permission of instructor. Annually

ENG 498 INDEPENDENT STUDY 1-8 credits
Advanced reading/writing in a selected area of English with a faculty member. Must be four credits to count as one of the three 400-level courses required for the English major. Repeatable for up to 8 credits. Prerequisites: ENG 101, one 200-level and one 300-level English course, and permission of instructor.

English as a Second Language (ESL)

ESL 201 INTERMEDIATE ESL I 4 credits
For students with some background in English as a second language. Focus on listening skills, note taking, and vocabulary development. Some individualizing of content possible. May be taken concurrently with ESL 202. May be repeated once for credit. Does not satisfy General Education requirements. Fall, Spring
ESL 202 INTERMEDIATE ESL II
4 credits
For students with some background in English as a second language. Focus on college level composition, reading, and vocabulary development. Some individualizing of content possible. May be taken concurrently with ESL 201. May be repeated once for credit. Does not satisfy General Education requirements. Fall, Spring

Environmental Studies

ENST 100 INTRODUCTION TO ENVIRONMENTAL STUDIES
An exploration of environmental issues including population growth, energy use, global climate change, and pollution. Through readings, lecture, and discussion we will examine physical, biological, chemical, economic, political, and social aspects of environmental problems on personal, local, and global scales. Fall, Spring

ENST 200 INTERMEDIATE ENVIRONMENTAL STUDIES
Experimental problem solving and analysis of environmental issues. Case studies and environmental literature are used to explore key issues and concepts in environmental science and policy. Assignments and projects will emphasize critical thinking. Prerequisites: ENST 100, prior or concurrent enrollment in ENG 202. Fall, Spring

ENST 210 ENERGY AND THE ENVIRONMENT
An ecological view of energy problems, their causes, and alternative solutions. Emphasizes the ecological effects of various solutions to energy problems. Spring

ENST 290 SPECIAL TOPICS
1-4 credits
Study of selected topics related to Environmental Studies. May be repeated as topics change. May be cross-listed with AMST 290, BIO 290, ENG 290, GEOG 290, HIST 290, POSC 290, PSYC 290, or other courses as appropriate depending on topic. Applicability to satisfying general education distribution requirements depends on the area with which the particular topic is cross-listed. Occasionally

ENST 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: ENST 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

ENST 395 JUNIOR SEMINAR
In-depth analysis of environmental research literature and methodologies. Emphasis on proposal writing, and written and oral presentations. Development of a project proposal to be completed in ENST 495. Exploration of postgraduate opportunities. Prerequisites: ENST 200, MATH 141, and junior standing. Spring

ENST 490 ADVANCED SPECIAL TOPICS
1-4 credits
Study of selected topics related to environmental studies at an advanced level. May be repeated as topics change. May be cross-listed with BIO 490, CHEM 490, ECON 490, GEOG 490, GEOL 490, TDS 490, or other courses as appropriate, depending on topic. Applicability to satisfying general education distribution requirements depends on the area with which the particular topic is cross-listed. Occasionally

ENST 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: ENST 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

ENST 495 SENIOR SEMINAR
A capstone experience integrating science and policy aspects of environmental studies. Emphasis on critical analysis of research literature. Research project developed in ENST 395 will be completed. Prerequisites: ENST 395, senior standing. Fall

ENST 498 INDEPENDENT STUDY
1-6 credits
Advanced work in various fields of environmental science through individual reading, writing, laboratory work, and/or field investigation. Requires research project and a written report. One hour conference. May be repeated to a total of 6 credits.

Film

FILM 250 FILM PRODUCTION I
4 credits
Introduction to basic filmmaking technique, structure, and aesthetics through production of video projects. Students gain skills in narrative filmmaking through emphasis on story, cinematography, editing, and directing. Course participation demands outside-class production time and either ownership of or access to a digital video camera. Prerequisite: Permission of instructor. Fall, Spring

FILM 259 FILM STUDIES CREDIT
1 credit
With approval of the faculty member concerned, a student may earn credit for film archival work, indexing and repair, or for participation in a faculty-directed film production. May be repeated for credit. By permission only. Graded Pass/Fail. Fall, Spring
FILM 270 INTRODUCTION TO FILM ANALYSIS  
4 credits  
Equips students with the tools necessary to become critical viewers of film by introducing them to the elements of film form, the process of textural analysis, and the variety of filmmaking techniques employed in narrative and non-narrative cinema. Fall, Spring

FILM 271 INTRODUCTION TO FILM HISTORY  
4 credits  
Examines the history of film’s technical, aesthetic, industrial, and social development within an international context, particularly in relation to wider cultural and political movements. The screening of a series of films and frequent writing assignments encourage critical skills Fall, Spring

FILM 290 SPECIAL TOPICS  
4 credits  
An exploration of areas not covered by the regular curriculum. Content depends on available faculty and resident artists. May be repeated for credit.

FILM 294 COOPERATIVE EDUCATION  
1-6 credits  
Introductory work-learning experience in film and/or video production, distribution, exhibition or preservation, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

FILM 298 INDEPENDENT STUDY  
4 credits  
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

FILM 350 FILM PRODUCTION II  
4 credits  
Study of 16mm synchronous-sound, nondialogue B & W film emphasizing pre-planning, script writing, and development and pursuing advanced directing, cinematography, editing, sound issues. Participation demands significant outside-class production time and substantial student financial output. Films should be produced by teams of two; prearranged partnerships encouraged. Prerequisites: Grade of B or better in FILM 250 (or equivalent) and permission of instructor. Must be taken concurrently with FILM 351. Fall, Spring

FILM 351 INTERMEDIATE PRODUCTION STUDIO  
4 credits  
Film production studio emphasizing hands-on equipment, facilities, and technique demonstrations. Prerequisites: Grade of B or better in FILM 250 (or equivalent) and instructor’s permission. Must be taken concurrently with FILM 350. Fall, Spring

FILM 352 FILM GENRES AND DIRECTORS  
4 credits  
Examines a body of narrative films related by virtue of theme, director, country, or period from historical and theoretical perspectives. May be repeated for credit as topics change. Prerequisites: FILM 270 and FILM 271, or permission of instructor Fall, Spring

FILM 355 FILM THEORY  
4 credits  
The study of major film theories and their application to specific films. Formalist, structural, and ideological theories are covered. Prerequisite: FILM 270, 271, and 352, or permission of instructor. Spring

FILM 440 ADVANCED PRODUCTION TECHNIQUES  
4 credits  
Exploration of film production areas not usually addressed through the regular curriculum. Specific topics and techniques covered vary. May be repeated for credit. Prerequisites: FILM 350 and permission of instructor. Fall, Spring

FILM 450 FILM PRODUCTION III  
4 credits  
First semester of yearlong course emphasizing pre-production for all crew positions toward production of 30-minute sync-sound, dialogue, 16mm color project. Participation demands substantial student financial output. Films should be produced in crews of seven to ten; pre-arranged crews encouraged. Prerequisites: Grade of B or better in FILM 350/351 (or equivalent) and permission of instructor. Fall

FILM 451 FILM PRODUCTION IV  
4 credits  
Second semester of year-long course emphasizing pre-production for all crew positions toward production of 30-minute sync-sound, dialogue, 16mm color project. Participation demands substantial student financial output. Films designed to be produced in crews of seven to ten; pre-arranged crews encouraged. Prerequisites: FILM 450 (or equivalent), and permission of instructor. Spring

FILM 490 ADVANCED SPECIAL TOPICS  
4 credits  
An exploration of areas not covered by the regular curriculum. Content and prerequisites depend on available faculty and resident artists. May be repeated for credit.

FILM 495 SEMINAR  
4 credits  
Intensive study of a particular theme or topic relating to film or film production. May be repeated for credit as topics change. Prerequisites: Junior standing and FILM 270, 271, and 352, or permission of instructor. Fall, Spring

FILM 498 INDEPENDENT STUDY  
1-6 credits  
Intensive study of an issue, problem, or topic related to film or film production. May be repeated for a total of 6 credits. Prerequisites: junior standing and permission of instructor.
FILM 499  SENIOR RESEARCH PROJECT
4 credits
Culminating course for critical studies in film. Under the guidance of a faculty member, students develop, research, and present an individualized project on a chosen historical or critical topic. Prerequisite: FILM 495 or permission of instructor.

French

FR 100  BASIC FRENCH LANGUAGE AND CULTURE
4 credits
Introduction to basic French, French history and contemporary culture. This course makes extensive use of multimedia resources including interactive language programs, video, and the Internet. Fall, Spring or Summer

FR 101-102  ELEMENTARY FRENCH I AND II
4 credits each
Development of the four basic language skills: listening, speaking, reading, and writing. Fall, Spring

FR 190  ELEMENTARY SPECIAL TOPICS IN FRENCH
Study of selected topics in French. May be repeated as topics change. Occasionally

FR 200 INTERMEDIATE READINGS IN FRENCH
4 credits
Selected readings in French from literary texts, scholarly journals, magazines, newspapers, and web sites. Class discussions are mainly in English. This course meets the A&H language requirement and does not count for the French major. Prerequisite: FR 102 or equivalent. Fall, Spring

FR 201-202  INTERMEDIATE FRENCH I AND II
4 credits each
Continuation of the development of the four basic language skills. Fall, Spring

FR 290  INTERMEDIATE SPECIAL TOPICS
Study of a selected topic in French. May be repeated as topics change. Occasionally

FR 298  INDEPENDENT STUDY
1-6 credits
Intensive study of some aspect of French language, literature, or culture adapted to the student’s needs. May be repeated to a maximum of 6 credits. Prerequisite: permission of instructor.

Geography

GEOG 100  INTRODUCTION TO GEOGRAPHY
A systematic introduction to the discipline, designed to give the beginning student exposure to physical, cultural, economic, and cartographic aspects of Geography. Fall, Spring

GEOG 101  INTRODUCTION TO WORLD GEOGRAPHY
A regional introduction to the physical and cultural geography of the world. This course includes curriculum and resource materials for teaching Geography. Students may not receive credit for both GEOG 101 and GEOG 105. Fall, Spring

GEOG 105  GEOGRAPHY FOR TEACHERS
4 credits
A combination of world regional geography (GEOG 101) and the five themes – location, place, human-environment interaction, movement, and region. Focuses a traditional university
course to needs of students who will become teachers. Germane to elementary education and social science majors. Students may not receive credit for both GEOG 105 and GEOG 101. Fall, Spring

GEOG 203 CULTURAL GEOGRAPHY
Spatial patterns and processes of culture, varying uses of natural resources at different cultural levels, and impact of contemporary humans on the natural landscape. Fall, Spring

GEOG 204 PHYSICAL GEOGRAPHY
An introductory study of maps, land forms, weather, climate, and vegetation patterns. Fall, Spring

GEOG 221 MAPS AND MAP READING
The fundamentals of maps, map contents, and the theory of map reproduction, as well as an overview of the maps of the United States and other countries. Spring

GEOG 290 SPECIAL TOPICS
1-4 credits
Study of a selected topic in Geography. May be repeated as topics change. Occasionally

GEOG 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA and permission of instructor. Graded Pass/Fail. Occasionally

GEOG 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits. Occasionally

GEOG 303 POLITICAL GEOGRAPHY
Effects of the physical environment – size, location, resources, and political patterns – on the political development of selected nations. Spring, alternate years

GEOG 304 POPULATION GEOGRAPHY
Global demographic analysis of birth rates, death rates, and migration rates. Provides a spatial, temporal, and structural investigation of the relationship between demographic and cultural, economic, and environmental factors. Prerequisite: GEOG 203 or GEOG 204. Spring, alternate years

GEOG 305 ECONOMIC GEOGRAPHY
An international examination of population issues, locations, characteristics, and relationships of economic activities, including primary, secondary, and tertiary sectors, as well as theory and the global economy. Prerequisite: ECON 201 or ECON 202 or permission of instructor. Fall, alternate years

GEOG 307 URBAN GEOGRAPHY
Examination of the forms and patterns – past, present and proposed – of human settlements. The city as an integral and complicated system with unique spatial attributes. Attention to urbanism, the growth of cities, morphological theories of urbanization, and modern urban problems. Prerequisite: GEOG 100 or GEOG 203, or permission of instructor. Fall, alternate years

GEOG 323 CARTOGRAPHY AND SURVEYING
4 credits
Fundamental and modern techniques of surveying and map making. 3 hour lecture, 3 hour lab. Fall, alternate years

GEOG 324 GIS: ARCVIEW
4 credits
ArcView GIS is a vector-based geographic information system. Lecture and lab-based instruction emphasize data input, manipulation, and production of maps for geographic analysis. Prerequisite: GEOG 204 or GEOG 221. Spring

GEOG 325 CARTOGRAPHY AND COMPUTER MAPPING
4 credits
Introduction to analyzing and mapping statistical geographical data with computer programs. Three-hour lecture, two-hour lab. Prerequisite: GEOG 204 or GEOG 221. Spring

GEOG 326 GIS: IDRISI
4 credits
An introduction to the raster-based Geographic Information Systems (GIS) IDRISI. Data input, modeling, and analysis of remotely sensed imagery are emphasized. 3-hour lecture, 3-hour lab. Prerequisite: GEOG 204 or GEOG 221. Fall

GEOG 327 INTRODUCTION TO REMOTE SENSING
The basics of aerial photography and remote sensing and the identification and analysis of objects. Imagery of low as well as high altitude is interpreted. Spring, alternate years

GEOG 328 METHODS OF SPATIAL ANALYSIS
4 credits
Introduction to statistical analysis in Geography. Principles learned include the use of the map as a model for statistics prediction and hypothesis testing, SPSSx computing on the PC through simulation experiments conducted in the computer lab of the Geography department. 3 hours lecture; 2 hours lab. Prerequisites: MATH 141 or PSYC 251 or SOC 303 and GEOG 203 or GEOG 204. Spring, alternate years

GEOG 330 NATURAL RESOURCE MANAGEMENT
Examination of the use and management of renewable and non-renewable resources, including patterns of assessment, conservation policies and practices, and human impact on the environment. Resources discussed include land, water, air, forests, wilderness, and recreation from an international perspective. Prerequisites: ENST 100; 6 credits in Geography. Fall, alternate years
GEOG 332  WATER RESOURCE GEOGRAPHY
Includes a systematic analysis of the input, management, and output water resources subsystems. Special emphasis on problems of maldistribution of supply and demand and on the institutional policies developed to address allocation conflicts. Prerequisites: ENST 100 and GEOG 204. Alternate (odd) years

GEOG 341  GEOGRAPHY OF THE UNITED STATES
A study of both physical and cultural aspects of the American landscape. Topics examined in large regional settings (e.g., the southwest). Spring

GEOG 343  GEOGRAPHY OF CANADA
Physical, cultural, economic, and political aspects of Canada from a geographic (spatial) point of view. Reasons for past and present landscapes are emphasized. Occasionally

GEOG 345  GEOGRAPHY OF LATIN AMERICA
A systematic analysis of the physical, social, and economic resources of Latin America. Focuses on historical development, physical and cultural diversity, natural resources, demographic trends, spatial interaction, and prospects for growth. Occasionally Spring

GEOG 347  GEOGRAPHY OF EUROPE
A topical and regional approach to the geography of Europe. Fall, alternate years

GEOG 349  GEOGRAPHY OF ASIA
Analysis and description of South, East, and Southeast Asia from the point of view of historical Geography. Emphasis on changing landscapes during selected time periods. Fall, occasionally

GEOG 351  GEOGRAPHY OF AFRICA
Analysis of the physical environment, population characteristics, and natural resources of the African continent. Attention to the potential role of the emerging African nations. Spring, alternate years

GEOG 371  GEOGRAPHY FIELD TRIP
1-6 credits
Off-campus field study. Themes include aspects of physical and/or cultural Geography depending on the expertise of the instructor and the areas under observation. Course may be repeated for a maximum of 15 credits, only 9 of which are applicable toward the major in Geography. Prerequisite: permission of instructor. Occasionally

GEOG 395 SEMINAR I
An in-depth analysis of geographic literature and research. Stresses research methodologies and design, survey analysis, report preparation, and oral presentations of research. Develops critical analysis and critical thinking skills in Geography. Prerequisites: 9 credits of Geography at 200-level or above. GEOG 324 or 325 recommended. Spring

GEOG 405  LAND USE PLANNING
Theory and methods of land use planning, with emphasis on the concepts, principles, and practices of lands analysis and evaluation of physical planning and design. Consideration given to land use, economic development, transportation, and regional planning concerns. Prerequisite: GEOG 203 or 307. Fall, odd years

GEOG 420  ENVIRONMENTAL ASSESSMENT
Examines methodologies for evaluating natural resources and organizing data for decision-making applications. Includes key legislative policies driving environmental assessments, common assessment techniques, and how information generated flows back into the policy process. Prerequisites: ENST 100 and GEOG 330, or permission of instructor. Alternate (even) years

GEOG 490  ADVANCED SPECIAL TOPICS
1-4 credits
Individual study and discussion of selected topics in Geography under direction of a faculty member. Prerequisites: GEOG 203 or 204 and permission of instructor. Occasionally

GEOG 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience related to career interests (compensation allowed). Placements arranged with and approved, supervised, and evaluated by full-time faculty. Elective credit only (normally 120 hours/credit). Prerequisites: GEOG 294, 2.5 cumulative GPA and permission of instructor. May be repeated to a total of 12 credits. Graded Pass/Fail. Fall, Spring

GEOG 495 SEMINAR II
The capstone course stressing integration and application of geographic studies and research. Focus on quantitative and qualitative methodologies and skills necessary for pursuing a Geography-related career. Culminates with the design and implementation of a major career-oriented research project. Prerequisites: GEOG 395; Statistics (MATH 141 or PSYC 251.) Fall

GEOG 498 INDEPENDENT STUDY
1-6 credits
Exploration of a major area of Geography under direction of a Geography faculty member. Topics contingent on student interest and available staff. Prerequisite: GEOG 100, 203, 204 and permission of instructor. May be repeated to a total of 6 credits. Fall, Spring

GEOG 571  GEOGRAPHY FIELD TRIP
1-6 credits
Off-campus field study. Themes include aspects of physical and/or cultural Geography depending on the expertise of the instructor and the areas under observation. A research project is required. Prerequisite: permission of instructor. Occasionally

Geology

GEOL 100  PERSPECTIVES OF THE EARTH
A survey of the earth sciences; Earth’s setting in space; atmosphere and matter; oceans; materials and processes of the
solid earth; origin and history of the earth. (Not open for credit toward a major program in science.) Fall, Spring

GEOL 101 PERSPECTIVES OF THE EARTH LAB
1 credit
Introduction to minerals and rocks. Interpretation of topographic and geologic maps. Two-hour lab exercises and required field trip(s) provide first-hand experience in physical geology. Prerequisite: concurrent enrollment in, or prior completion of, GEOL 100. Fall, Spring

GEOL 201 INTRODUCTORY PHYSICAL GEOLOGY
4 credits
An introduction to the Earth, emphasizing an overview of the external and internal processes which shape the planet. Labs emphasize the study of Earth materials and topographic maps. 3-hour lecture, 2-hour lab (field trips may be required). Fall, Spring

GEOL 202 HISTORICAL GEOLOGY
4 credits
An introduction to Earth History and the processes which have shaped the Earth since its formation. Topics include absolute and relative correlations, plate tectonics, and the origin and evolution of the atmosphere and biosphere. 3-hour lecture, 2-hour lab (some Saturday field trips required). Prerequisite: GEOL 201 or GEOL 100 and 101. Spring

GEOL 206 OCEANOGRAPHY
Introduction to the study of the sea; nature of sea water and its processes; marine life; features and sediments of the ocean floor; theories on the origin of ocean basins, trenches, ridges, and continental terraces. Fall, Spring

GEOL 210 THE HYDROLOGIC CYCLE
An introduction to the study of water and its flow through the global environment, from precipitation to ground water, rivers, lakes, the ocean and back. Occasionally

GEOL 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

GEOL 301 MINERALOGY
4 credits
Introduction to crystallography; physical and chemical nature of minerals; description and determination of important economic and rock-forming minerals; origin of mineral deposits. 5-hour lecture, lab. Prerequisites: CHEM 111/115, GEOL 201, or permission of instructor. Fall, odd years

GEOL 302 PETROLOGY
4 credits
The origin, occurrence, description and classification of the more common types of rocks, with emphasis on igneous and metamorphic rocks. 5-hour lecture, lab, field trips. Prerequisite: GEOL 301. Spring, even years

GEOL 303 STRUCTURAL GEOLOGY
Study of the structural features of rock bodies and interpretation of these features in terms of the forces that caused them; methods of geological field work; graphic representation of geological field data; interpretation of geological maps; preparation of field reports. 5-hour lecture, lab, field work. Prerequisites: GEOL 201-202, or permission of instructor. Spring, odd years

GEOL 305 PALEONTOLOGY
The description, classification, geographic and stratigraphic distribution, evolution, and uses of invertebrate fossils; some attention to environments of life forms. 2-hour lecture, 2-hour lab. Prerequisites: GEOL 202 and BIO 151, or permission of instructor. Spring, even years

GEOL 306 STRATIGRAPHY
Principles of stratigraphy and sedimentation; properties and classification of sedimentary rocks; sedimentary processes and environments; stratigraphic procedures and correlations; and stratigraphic relationships of North America. 2-hour lecture, 2-hour lab. Prerequisite: GEOL 202. Fall, odd years

GEOL 309 GEOMORPHOLOGY
Nonglacial surface processes. The evolution of land forms and influence of lithology, tectonics, and climate on land forms. Surface processes related to land use and environmental planning. Labs involve interpreting topographic and geologic maps, field projects. Prerequisite: GEOL 309, or permission of instructor. Spring, odd years

GEOL 310 GLACIAL GEOLOGY
Study of the mechanics of glacial origin and movement, characteristics of existing glaciers, and an interpretation of Pleistocene glacial features. Emphasizes the glacial topography of northeastern North America, with special attention to New Hampshire examples of alpine and continental glaciation. 2-hour lecture, 2-hour lab, field trips. Prerequisite: GEOL 309, or permission of instructor. Spring, odd years

GEOL 315 ENVIRONMENTAL GEOLOGY
4 credits
Relationships between humans and our geological environment, including resources, hazards, and human impacts. Field methods in obtaining geologic information for resource evaluation and protection, risk reduction, and environmental remediation. 3-hour lecture, 2-hour lab, field trips. Prerequisites: GEOL 201 or GEOL 100 and 101. Formerly GEOL 450. Fall

GEOL 401 OPTICAL PETROGRAPHY
The effects of crystalline structure on light rays; the application of these effects to the identification of minerals and rocks in thin section using the polarizing microscope. 4-hour lecture, lab. Prerequisite: GEOL 302. Fall, even years

GEOL 412 ENVIRONMENTAL GEOCHEMISTRY
4 credits
Examination of the principles and mechanisms governing distribution of the chemical elements and their isotopes in natural environments, with application to selected problems and geochemical analysis research projects. 3-hour lecture, 3-hour laboratory, field trips. Prerequisites: GEOL 201, CHEM 112/116, and PHYS 142, or permission of instructor. Spring, even years
GEOL 440  EVOLUTION OF EARTH AND LIFE
The origin and evolution of the earth and its living inhabitants, emphasizing the interrelationships of the planet and its biosphere. Topics will include the origins of cellular and multicellular life and the causes and significance of mass extinctions. Also listed as BIO 440. Prerequisites: BIO 151/152, 153/154, and GEOL 201 or BIO 151/152, GEOL 201, and GEOL 202, or permission of instructor. Spring, even years

GEOL 460  HYDROGEOLOGY
4 credits
Occurrence and movement of groundwater as it relates to the hydrologic cycle, water resource evaluation (well hydraulics), and transport and fate of contaminants; theoretical and practical aspects, including computer modeling. Three-hour lecture, two-hour lab; field trips may be required. Prerequisites: GEOL 201 (or equivalent), MATH 151, and PHYS 141, or permission of instructor. Spring, odd years

GEOL 490  ADVANCED SPECIAL TOPICS
1-4 credits
Study of a selected topic in Geology at an advanced level. May be repeated to a total of 8 credits as topics change. Prerequisite: permission of instructor. Frequently

GEOL 498  INDEPENDENT STUDY
1-6 credits
Advanced study of various fields of Geology through individual reading, writing, laboratory work and/or field investigation; involves a research project and submission of a written report. One-hour conference. May be repeated to a total of 6 credits. Fall, Spring

GER 101-102  ELEMENTARY GERMAN I AND II
4 credits each
Development of the four basic language skills: listening, speaking, reading, and writing. Fall, Spring

GER 131  GERMANY TODAY
Geographical features, government, economic structure, social welfare, and contemporary issues in the Federal Republic of Germany. Conducted in English. Spring, alternate years

GER 190  ELEMENTARY SPECIAL TOPICS IN GERMAN
Study of selected topics in German. May be repeated as topics change. Occasionally

GER 201-202  INTERMEDIATE GERMAN I AND II
4 credits each
Continuation of the development of the four basic language skills. Fall, Spring

GER 290  INTERMEDIATE SPECIAL TOPICS
Study of a selected topic in German. May be repeated as topics change. Occasionally

GER 298  INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

GER 315  CONVERSATION AND COMPOSITION
4 credits
Review and practice aimed at increasing listening and speaking proficiency. Practice in writing German: essays, narratives, and creative pieces. Prerequisite: GER 202 or equivalent. Fall

GER 350  STUDY IN GERMANY OR AUSTRIA
Maximum of 18 credits per semester
Study in a College-approved program. May be used to meet the Arts and Humanities Language requirement. Students must meet with Modern Languages faculty for pre-approval of their program of study and for an exit interview upon their return.

GER 498  INDEPENDENT STUDY
1-6 credits
Intensive study of some aspect of German language, literature, or culture adapted to the student’s needs. May be repeated to a maximum of 6 credits. Prerequisite: permission of instructor.

Health Science

HLSC 101  HEALTH AND WELLNESS: TRENDS AND ISSUES
Emphasis on the balanced, integrated, holistic model of well-being. Focuses on application of critical thinking skills including assessment, exploration, and behavior change to enhance personal wellness and professional effectiveness. Fall, Spring

HLSC 115  NUTRITION AND WELL-BEING
Introduction to nutrients and their relationship to individual well-being. Health issues associated with diet and nutrition, lifestyle choices, and the role of nutrition for a healthy person. Assessing nutrient intake and strategies for making informed choices are presented. Prerequisite: Freshman or sophomore standing or permission of instructor. Fall, Spring

HLSC 150  INTRODUCTION TO THE NUTRITION PROFESSION
1 credit
Introduction to educational career expectations and opportunities for the dietetics and nutrition profession. Students will explore career options, issues of the consequences in the changing healthcare environment, and lifelong learning. The development and assessment of professional portfolios are introduced. Spring

HLSC 200  ALCOHOL AND OTHER DRUGS: THE FUNDAMENTALS
An introduction to alcohol and other drugs and their biophysical effects. Topics include the history and classification of drugs,
the physical, cognitive, emotional, and societal impact of psychoactive substances, levels of use, poly-substance abuse, and addiction liability. Required for the Associates Degree in Chemical Dependency, and HLSC Substance Abuse/Addictions option. Spring, Fall

HLSC 214 NUTRITION FUNDAMENTALS
Provides key understandings in nutrition science emphasizing practical application. Topics include nutrition guidelines, assessment, body systems, micro and macronutrients, energy balance, physical activity, health, pregnancy and development. Uses foundation concepts to address current controversies in these areas. Prerequisites: HLSC/PE 101, CHEM 100 or CHEM 103/107, BIO 230/231, BIO 232/233. Fall, Spring

HLSC 215 NUTRITION SCIENCE AND APPLICATION

HLSC 216 CURRENT TOPICS IN FOOD CULTURE
4 credits
Introduction to the effects of economic, cultural, aesthetic, and sociopsychological factors related to food and nutrition. Analysis of contemporary issues related to food, people, and culture. Prerequisite: HLSC 101, HLSC Major only, or permission of instructor. Fall

HLSC 217 APPLIED NUTRITION SCIENCE LAB
1 credit
Application of nutritional science pertaining to macro- and micronutrients. Experiences include application of the Food Guide Pyramid, Diabetic Exchange, and nutritional assessment tools. Emphasis on learning how to read, interpret, and apply information found in the scientific nutritional literature. Corequisites: HLSC 215 and HLSC 310. Prerequisite: Nutrition Option only. Spring

HLSC 220 WOMEN AND HEALTH
A historical and current survey of the biological, social, economic and political issues that affect women's physical and mental health. Includes discussion of body image, nutrition, exercise, addictive behaviors, aging, disorders common to women. Prerequisite: Sophomore standing. Annual

HLSC 285 HEALTH IN SOCIETY
An introduction to the social, cultural, economic, environmental, and political factors that affect health. Topics of social justice and ethics will be explored. Prerequisites: HLSC 101 or SOC 201, Sophomore or Junior standing only. Fall, Spring

HLSC 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits. Fall, Spring

HLSC 310 FOOD SCIENCE
4 credits

HLSC 313 FOOD SERVICE MANAGEMENT
4 credits
Theory and introductory practice in management of planning, directing, coordinating and controlling food service systems: menus, purchasing, inventory, food production and service, finances, space and equipment layout, and use. Use of spreadsheet, software in budget preparation, data analysis and budgetary control. Corequisite: HLSC 315. Prerequisite: HLSC 101. Fall

HLSC 315 FOOD SERVICE MANAGEMENT LAB
1 credit
Field experience, computer-based financial management in nutrition and food service management and food service sanitation certification course. Corequisite: HLSC 313. Uniform required. Fall

HLSC 318 LIFE CYCLE NUTRITION AND WELLNESS
1 credit
Changing nutrition and wellness needs, physiology and health concerns preconception through late adulthood. Requirements and challenges posed by physical and psychological growth, development and lifelong wellness. Assessment, intervention and evaluation of individuals, groups and communities. Corequisite: HLSC 319. Prerequisites: HLSC 201/PE 201, HLSC 214 or HLSC 215, and Nutrition Option. Fall, Spring

HLSC 319 LIFE CYCLE LAB
1 credit
The application of life cycle nutrition and wellness knowledge in a campus or community service-learning project. Students will conduct an asset-based assessment on a selected target population and design an educational program that includes lesson planning, marketing, implementation, and evaluation. Prerequisite: HLSC 214 or 215. Co-requisite: HLSC 318. Fall, Spring

HLSC 320 NUTRITION, FITNESS, AND HEALTH
The relationship between physical fitness and nutrition is examined. The effects of diet on physical performance and misconceptions surrounding food, fluids, and supplements are studied. The role of nutrition in enhancing performance, achieving desired caloric balance, and preventing disease and injury is analyzed. Prerequisites: HLSC 201, HLSC 214 or HLSC 215, BIO 230/232, and BIO 231/233. Spring
HLSC 330 PSYCHOLOGY OF HEALTH AND PHYSICAL ACTIVITY
Biopsychosocial examination of the factors underlying health and disease. Students explore mind/body interactions, psychosocial risk and protective factors in health. Emphasis is on physical activity adherence and on other health behaviors such as eating and smoking. Prerequisite: PSYC 101, HLSC major, or permission of instructor. Fall

HLSC 332 FITNESS TESTING
Scientific principles of exercise testing and prescription. Laboratory experience included. Prerequisites: HLSC/PE 201 and Health Promotion and Fitness Option or permission of instructor. Fall, Spring

HLSC 333 EXERCISE PROGRAMMING
Designed to prepare students to safely and effectively design, evaluate and supervise individual physical fitness programs. Prerequisites: HLSC 201, PE 200, HLSC 332. Fall, Spring

HLSC 334 GROUP FITNESS LEADERSHIP
1 credit
Strategies and techniques for designing and leading groups in physical activities. Develops the leadership qualities and skills expected for leading safe and effective exercise activities. Corequisite: HLSC 333, or permission of instructor. Fall, Spring

HLSC 372 PRACTICUM: HEALTH PROMOTION AND FITNESS
Designed to provide the student with a practical application of health fitness and health promotion skills. Theory and/or administrative/management skills and concepts in the sport and leisure industry are incorporated. Maximum of 6 credits. Prerequisites: HLSC 201, PE 200, HLSC 332, or permission of instructor. Fall, Spring

HLSC 380 ALCOHOL: MODEL OF CHEMICAL DEPENDENCY
Study of the role of alcohol as a mind-altering drug. Examines the effect alcohol has on the body, behavior, society, transportation, and the educational system. Emphasizes available research and materials. Prerequisites: HLSC 101, and PSYC 101 or SOC 201, or permission of instructor. Fall, Spring

HLSC 385 BEHAVIOR CHANGE FACILITATION
Expands on knowledge of the behavior change process (and education theories) presented in prerequisite courses. Students study and practice skills in interviewing, listening, communication, assessment, motivation, teaching, presentation, and evaluation while facilitating behavior change for diverse individuals and groups. Prerequisites: COMM 171, HLSC 201, HLSC 214 or HLSC 215, HLSC 380.

HLSC 401 HEALTH PROMOTION METHODS
Development of skills and abilities needed for health promotion program planning, implementation, and evaluation. Development of skills in designing program objectives, effective facilitation, selecting appropriate resources, integrating educational process into behavior change process. Prerequisites: HLSC 318, HLSC 385. Fall

HLSC 402 HEALTH PROMOTION MANAGEMENT
Application of the theory and practice of management to the health sciences. Topics include assessment of marketing wellness services, programs, and facilities; decision making; communications; interpersonal relations; ethics; cultural diversity; and quality. Demonstrate ability to function in a management setting. Prerequisite: HLSC 401, MGT 101 or HLSC 313. Spring

HLSC 410 EXPERIMENTAL FOODS
2 credits
Introduction to food research methods and technical writing. Experimental investigation of the chemical and physical reactions involved in food preparation, sensory and objective testing of food quality and food product formulation. Prerequisite: HLSC 310. Spring

HLSC 415 NUTRITIONAL BIOCHEMISTRY
Biochemical and biophysical aspects of variation in nutrient supply and demand within the human biosystem. Prerequisites: HLSC 215, BIO 153/154, BIO 230/232, and BIO 231/233. Corequisite: HLSC 419. Fall

HLSC 416 MEDICAL NUTRITION THERAPY
4 credits
Role of the therapeutic dietitian as instructor, counselor, or member of health team. Modification of normal nutritionally balanced diets for the prevention and treatment of diseases. Development of professional skills: diet instruction and counseling, and charting. Corequisite: HLSC 417. Prerequisites: HLSC 318, BIO 153/154, BIO 230/231, BIO 232/233. Spring

HLSC 417 MEDICAL NUTRITION THERAPY LAB
1 credit
Field experience in acute care and community settings integrated with classroom instruction. Hands-on involvement with nutrition assessment and the planning, implementation and evaluation of nutrition intervention. Corequisite: HLSC 416. Spring

HLSC 419 NUTRITION RESEARCH LAB
1 credit
Survey of research methodologies in the field of nutrition. Students will practice skills in critiquing current literature. Students will also research, develop and present a seminar on a topic of their choosing. Corequisite: HLSC 415. Fall

HLSC 431 STRESS MANAGEMENT
This course explores the variety of stress management techniques, and examines the sources of stress from a psychosocial model perspective. Students investigate their own personal stress and begin to develop formal stress reduction techniques and coping skills. Prerequisites: Health Promotion and Fitness Option or permission of instructor. Spring
HLSC 439 INTERNSHIP IN HEALTH SCIENCE/ CHEMICAL DEPENDENCY
1-6 credits
Students are assigned according to their preparation and interests, in chemical dependency, to educational governmental, industrial, medical settings and other organizations focused on chemical use and abuse. Credits determined by supervising faculty member. May be repeated for a maximum of 12 credits. Prerequisite: Permission of instructor. Fall, Spring

HLSC 445 HUMAN SEXUALITY
Examines human sexual development and behavior, including reproduction, sexual anatomy, psychosexual development, sexual socialization, values, and various forms of sexual expression. Prerequisites: courses in Biology, Sociology, and Psychology and junior standing, or permission of instructor. Fall, Spring

HLSC 472 ADVANCED PRACTICUM: HEALTH PROMOTION AND FITNESS
3-12 credits
A supervised experience designed to provide the advanced student with an applicable exposure to career opportunities in health promotion and fitness. Planning and supervising selected activities appropriate to the assigned work site. Prerequisite: HLSC 372 or permission of instructor. Fall, Spring

HLSC 473 PRACTICUM: NUTRITION
Supervised field experience in community, clinical or food-service management environments providing nutrition and dietetics practice opportunities for the advanced student. Hands-on experience aimed at developing critical skills in the application of theory to practice. Prerequisites: HLSC 313, HLSC 318, HLSC 401, HLSC 416. Fall, Spring

HLSC 486 ASSESSMENT, DIAGNOSIS, AND COUNSELING
Develop skills for assessment of client drug abuser strengths and weaknesses. Focuses on useful counseling techniques, treatment modalities, and referral sources. Prerequisite: HLSC 380 or permission of instructor. Fall, Spring

HLSC 488 ADDICTION: PREVENTION TO TREATMENT
Study and application of theories, techniques and methods in alcohol and other drug prevention, education, intervention, and treatment. Prerequisite: HLSC 380. Annually

HLSC 490 ADVANCED SPECIAL TOPICS
1-3 credits
Study in an area of Health Science beyond that provided in other courses. May be repeated as topics change. Prerequisite: Varies with topic. Fall, Spring

HLSC 495 SEMINAR: HEALTH SCIENCE
This is a capstone class in which students integrate the knowledge, skills, and abilities learned throughout the Health Science preparation. Opportunities to extend the knowledge of the field and broaden comprehension of current issues. Prerequisites: HLSC 385, Health Science major, and senior standing, or permission of instructor. Fall, Spring

HLSC 498 INDEPENDENT STUDY
1-6 credits
Independent study under faculty supervision of a problem in an area of Health Science. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor. Fall, Spring

HLSC 690 GRADUATE SPECIAL TOPICS
1-3 credits
Study of selected topics in human services based on the needs and interests of the student. Prerequisite: Permission of instructor. Spring

History

HIST 111 TRADITIONAL WORLD CIVILIZATION
A survey of the four major civilizations (Western, Middle Eastern, South Asian, and East Asian) from antiquity to 1500. Provides a generalized view of cultural, political, economic, and religious evolution. Fall

HIST 112 MODERN WORLD CIVILIZATION
A survey of the four major civilizations (Western, Middle Eastern, South Asian, and East Asian) from the beginning of European world dominance (1500) to the emergence of the modern world. Provides a generalized view of cultural, political, economic, and religious evolution. Spring

HIST 121 TRADITIONAL CIVILIZATION OF EAST ASIA
A survey of China and Japan from antiquity to approximately 1800. Establishes a broad picture of cultural values, social structures, and political institutions. Attempts to convey a sense of how both the common people and the elite lived. Spring

HIST 122 MODERN EAST ASIA
A sequel to HIST 121. A survey of Chinese and Japanese experiences with modernization from the beginning of the 19th century to the present. The theme of revolution provides focus for the study of China. In the case of Japan, the main emphasis is on its rapid adaptation to the modern world. Fall

HIST 141 WESTERN CIVILIZATION I: ORIGINS TO 1500
From Moses to Machiavelli, from the Parthenon to St. Peter’s, an introduction to the crucial ideas, institutions, and events of the formative centuries of Western civilization. Fall

HIST 142 WESTERN CIVILIZATION II: 1500 TO PRESENT
From Luther’s dissent to contemporary student protest, the revolutionary modern era is examined. Important landmarks include the birth of modern science, the Enlightenment, political revolutions in England, North America, France, and Russia, industrialization, and the tragedies and triumphs of the 20th century. Fall
HIST 161 TOPICS IN UNITED STATES HISTORY I
A systematic introduction to United States history before 1877, emphasizing major topics within a chronological framework. Topics vary with each instructor, but always include: Puritan and plantation colonies, formation of the United States, slavery and abolition, foreign relations and territorial expansion, the rise of mass politics, and the Civil War and Reconstruction. Not open to juniors and seniors except by permission. Fall, Spring

HIST 162 TOPICS IN UNITED STATES HISTORY II
A systematic introduction to United States history since 1865, emphasizing major topics within a chronological framework. Topics vary with each instructor, but always include: industrialization and labor, immigration, the growth of cities, nativism and extremism, segregation, civil rights, centralization of American life, and the rise of the United States as a world power. Not open to juniors and seniors except by permission. Fall, Spring

HIST 200 READING AND WRITING IN HISTORY
An introduction to various ways of reading and interpreting historical documents and to the major forms of historical writing. This course is intended to prepare students for advanced course work. History 200 must be taken prior to completing 13 credits in History. Fall, Spring

HIST 245 BRITAIN: ORIGINS TO 1399
An introduction to the history of Britain. This course covers prehistoric through Plantagenet England, with emphasis on political, intellectual, and cultural developments. Spring

HIST 246 TUDOR AND STUART BRITAIN
The history of Britain from the 14th through the 17th centuries, with emphasis on parliamentary crises, civil wars, and the English reformation. Spring

HIST 247 ISSUES IN MODERN BRITAIN
Exploration of political, intellectual and cultural issues in Britain from 1700 to the present. Spring

HIST 252 THE HOLOCAUST
Examines the genocide and mass murder committed by the Nazi regime during 1939-1945. Also surveys long- and short-term factors, including World War I and Germany’s failed postwar democratic experiment, that help explain the consolidation of a racially based totalitarian regime. Cross-listed as HOLO 252. Spring

HIST 253 THE SECOND WORLD WAR
Examines the origins and outbreak of WWII, the course of the war in Europe and the Pacific, the complexity of military priorities and operations, the evolution of mass murder in Nazi-occupied Europe, and the war’s social and political impact.

HIST 261 U.S. SOCIAL HISTORY I: 1603-1865
Evolution of American institutions, including the family, social classes, work, economic relationships, roles of the sexes, churches, child rearing, education, and governments, from colonial origins to the mid-19th century. Not open to students who have completed HIST 161 with a passing grade. Fall

HIST 262 U.S. SOCIAL HISTORY II: 1865 TO PRESENT
A continuation of HIST 261 for the late 19th and 20th centuries. Elements examined: the social consequences of industrialization and urbanization; the development of the public school system; the roles of corporations, labor unions, and professional organizations; and the changing roles of the sexes and governments. Not open to students who have completed HIST 162 with a passing grade. Spring

HIST 265 MILITARY IN U.S. SOCIETY I
A social history of war, peace, and the military in America from the Colonial period through the Civil War. Surveys the development of U.S. military institutions, the nation’s wartime experiences, and how the military reflected American society and culture.

HIST 266 MILITARY IN U.S. SOCIETY II
A social history of the U.S. military from Reconstruction to the present. Focuses on the social composition of the military, the growth of federal power, American attitudes toward war and peace, and the development of “modern” warfare.

HIST 269 WOMEN IN MODERN AMERICA
Course describes women from the late 19th century to today. Themes include women and power, gender division of labor, women and family, life cycles. Topics include women in unions, women’s suffrage fights, women in world wars and in modern rights movements.

HIST 290 SPECIAL TOPICS
1-3 credits
Study of a selected topic in History. May be repeated as topics change. Fall, Spring

HIST 291 WORLD OF THE OLD TESTAMENT
A historical, literary, and philosophical introduction to the Hebrew Bible, one of the most important and influential texts in the history of world civilization. Particular attention is paid to the relationship between rhetoric and theology in the Bible. Fall, Spring

HIST 300 CLASSICS IN HISTORIOGRAPHY
The study of one or more classic texts in historiography (e.g., Gibbon’s Decline and Fall, Schama’s Citizens) with special attention paid to the methodology, ideology, writing style, rhetoric, and argumentation presented by the historian(s). Authors may change. Spring

HIST 321 LATE IMPERIAL CHINA
The relationship between the Chinese polity and society in the late imperial period (Ming and Qing dynasties, 14th century to 1911). Includes: family system, important socioeconomic changes, and the persistence of traditional culture, thought and institutions into modern times.

HIST 322 THE CHINESE REVOLUTION
China’s revolutionary transformation in the 20th century. Includes the social and political origins of revolution, the Communist movement and rise of Mao, defeat of Nationalists, creation of the People’s Republic and its principal domestic
and foreign policies to the present. Not open to students who have taken HIST 326 or 327.

HIST 324 MODERN JAPAN
From the Tokugawa period to the present, this course traces Japan’s transition from a feudal to an industrial society, the decline of the Samurai class, and the rise of cities, merchants, and urban culture, the Meiji Restoration and political reform, imperialist expansion, war, American occupation, and post-war changes contributing to Japan’s “miraculous” economic growth. Spring

HIST 330 ANCIENT CIVILIZATION
The dawn of civilization: ancient Mesopotamia – life in the valley of the two rivers; ancient Egypt – civilization in the Nile Valley; the smaller kingdoms of the Hittites, Phoenicians, and Hebrews; the growth of the empire – Assyria and Persia. Selected cultural, economic, and political developments are studied. Fall

HIST 332 GREECE IN THE CLASSICAL AGE
The evolution of Greek classical civilization from the Mycenaean origins through the Hellenistic age. The significance of the Polis is brought out by detailed examination of Athens and Sparta. Intellectual and cultural contributions of classical Greece. Fall

HIST 336 THE MEDIEVAL WORLD: 400-1500
Europe and the Byzantine and Islamic worlds from the collapse of the Western Roman Empire to the discovery of America by Columbus. Feudalism, manorialism, the role of the Church, the rise of the nation-state, growth of cities, revival of the economy, and the development of technology. Fall

HIST 337 EUROPE: 1400-1600
Special attention is paid to the Renaissance and Reformation, the age of exploration, and the early scientific revolution. Fall

HIST 340 THE FRENCH REVOLUTION AND THE NAPOLEONIC EMPIRE
Covers in detail the causes, progress, and consequences of the French Revolution and the rise and fall of the Napoleonic Empire. Fall

HIST 341 EUROPE FROM WATERLOO TO VERSAILLES
Examines the post-Napoleonic restoration, the forces of nationalism, liberalism, and imperialism, and the origins of World War I. Spring

HIST 342 EUROPE 1918-1945
The history of Europe from the Versailles treaty to the end of World War II, with special attention given to the rise of Fascism in Germany and Italy and the political and diplomatic events of World War II. Spring

HIST 343 EUROPE SINCE 1945
Political, diplomatic, and economic developments in Europe, notably in the major countries of Western Europe. Fall

HIST 349 FRANCE SINCE 1815
History of post-Napoleonic France, including the Restoration and the beginnings of Republicanism and its evolution during the Third, Fourth, and Fifth Republics. Spring

HIST 351 19TH-CENTURY GERMANY
After reviewing the collapse of the Holy Roman Empire, this course examines the impact on Germany of the French Revolution, the role of philosophy in Germany’s development, the policies of Metternich, Bismarck’s role in German unification, and the origins of WWI. Prerequisite: HIST 142. Fall

HIST 352 20TH-CENTURY GERMANY
World War I and its impact on Germany’s Weimar Republic, the rise of National Socialism and Hitler’s seizure of power, the Nazi racial state and Holocaust, World War II, and the influence of the cold war on Germany’s postwar development. Prerequisite: HIST 142. Not open to students to have taken HIST 353. Spring

HIST 353 NAZI GERMANY AND THE HOLOCAUST
Examines the Nazi rise to power during the Weimar Republic, the consolidation of totalitarian rule, the transformation of racial ideology into policy, Hitler’s foreign policy as prelude to war, World War II, and the Holocaust. Cross-listed as HOLO 353. Prerequisite: HIST 142. Spring, even years

HIST 356 READINGS IN THE HISTORY AND PHILOSOPHY OF SCIENCE
Examines selected topics in the development of scientific thought and philosophy of science. Fall

HIST 360 THE AMERICAN COLONIES TO 1763
Examines the foundation of the American colonies and the economic, social, and political problems besetting them from their establishment to the close of the Great War for Empire, 1763. Fall

HIST 361 THE AMERICAN REVOLUTION
Examines the causes of the conflicts of 1763 to 1783, the nature of the Revolution, the Confederation years, the establishment of the Constitution and changes to 1789. Spring

HIST 362 THE EARLY AMERICAN REPUBLIC 1789-1850
Examines political, social, economic, and cultural developments as well as changes in material culture from the establishment of the federal government to the Compromise of 1850. Fall

HIST 363 THE UNITED STATES IN THE CIVIL WAR PERIOD: 1850-1876
Examines the coming of the Civil War, the secession crisis, the war itself, and Reconstruction. Prerequisite: Not open to freshmen without permission of instructor. Fall

HIST 364 19TH-CENTURY AMERICA
Examines selected aspects of the century’s major developments; topics include, among others, immigration, the political economy of the Civil War, the rise of labor, elections and politics, and the Populist movement. Spring

HIST 365 GILDED AGE AND PROGRESSIVE ERA AMERICA
Examines social, economic, and political aspects of U.S. history from 1877 to 1920. Topics include industrialization, im-
migration, politics, Populism, progressivism, and World War I. Prerequisite: Not open to freshmen without permission of instructor. Spring

HIST 366 U.S. IN CRISIS: 1920-1950
Special attention is given to the turbulent 20s and market crash; the anxieties of the 30s and governmental response; U.S. role in World War II and homefront repercussions for women and Japanese Americans; postwar traumas of bomb, cold war, and domestic readjustment. Prerequisite: HIST 162 or HIST 262, or permission of instructor. Fall

HIST 367 MODERN AMERICA: 1950-PRESENT
Describes U.S. in modern age of Cold War and fears of domestic subversion, domestic reform upheavals of blacks, students, women in 1960s and 1970s; major changes for economy and labor. Prerequisite: HIST 162 or 262, or permission of the instructor. Spring

HIST 390 STUDIES IN HISTORY
1-3 credits
Examines a selected subject or theme in history at an intermediate level. May be repeated as subjects/themes change. Fall, Spring

HIST 393 TOPICS IN HISTORY OF IDEAS
Examines a selected topic in intellectual history, cultural history, or history of philosophy. Readings are drawn from primary sources. May be repeated as topics change. Prerequisite: one course in history or permission of instructor. Cross-listed as PHIL 393. Fall, Spring

HIST 490 ADVANCED SPECIAL TOPICS
1-4 credits
Study of a selected topic in History at an advanced level. May be repeated as topics change. Fall, Spring

HIST 495 SEMINAR
Discussion of problems and issues in History. May be repeated as seminar topics change. Prerequisite: permission of instructor. Fall, Spring

HIST 497 HISTORY INTERNSHIP
1-3 credits
Students research, organize, and write about historical materials in cooperation with historical societies, archives, museums, historical restoration projects, and other groups or agencies. The History Internship Committee, in consultation with the dean of Arts and Humanities, determines the credit value. Prerequisite: permission of instructor. Fall, Spring

HIST 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an issue, problem, or topic. Offered as independent study if proposed by the student or as directed study if designed by the faculty member. May be repeated to a total of 6 credits. Prerequisite: permission of instructor. Fall, Spring

Holocaust Studies
The minor in Holocaust Studies combines a core in History with the opportunity for students to explore the Holocaust through film, literature, philosophy, psychology, sociology, and other History offerings (for specific options, see Minors section of this catalog). With a deeper awareness of such issues as prejudice, discrimination, and racism, students choosing the minor should be better able to analyze contemporary political situations and think critically about ethical responsibility. The minor should also generate a deeper theoretical understanding of the Holocaust and critical insight regarding debates in Holocaust research.

HOLO 252 THE HOLOCAUST
Examines the genocide and mass murder committed by the Nazi regime during 1939-1945. Also surveys long- and short-term factors, including World War I and Germany’s failed post-war democratic experiment, that help explain the consolidation of a racially based totalitarian regime. Cross-listed with HIST 252. Spring

HOLO 254 WOMEN AND THE HOLOCAUST
4 credits
Explores gender in Central Europe in 1930s and 1940s, women’s experiences under Nazi rule, in ghettos, camps, in anti-fascist resistance, and as Holocaust survivors. Examines connections between the Holocaust and present-day manifestations of anti-Semitism, sexism, homophobia, nationalism, masculinity, and feminism. Prerequisite: HOLO 252 or HIST 252 or WS 201. Spring

HOLO 290 SPECIAL TOPICS
Exploration of a specific issue or theme applying interdisciplinary methods to readings and analysis. Builds on foundations acquired in HIST 142 or HOLO 252/HIST 252, the two introductory courses. May be repeated for credit as topics change. Prerequisite: HIST 142 or HOLO 252/HIST 252. Occasionally

HOLO 326 SOCIOLOGY OF THE HOLOCAUST
Analyzes the Holocaust from a comparative, sociological perspective, applying relevant theories and concepts. Emphasis is on social and cultural forces that led to the Holocaust, including stereotyping, discrimination, anti-Semitism, institutional changes, and social/political indifference. Prerequisite: SOC 101 or HOLO 252 or HIST 252. Cross-listed with SOC 326. Fall

HOLO 353 NAZI GERMANY AND THE HOLOCAUST
Examines the Nazi rise to power during the Weimar Republic, the consolidation of totalitarian rule, the transformation of racial ideology into policy, Hitler’s foreign policy as prelude to war, World War II, and the Holocaust. Prerequisite: HIST 142. Cross-listed with HIST 353. Spring, even years

HOLO 490 ADVANCED SPECIAL TOPICS
Advanced interdisciplinary study of a specific issue or theme not covered in depth by the regular curriculum. Content and
prerequisites vary. Prerequisites: HIST 142, HOLO 252/HIST 252, and one 300-level or higher HOLO depth course. Occasionally

**HOLO 495 SEMINAR**
Small-group exploration and discussion of problems and issues in Holocaust Studies. May be repeated as topics change to a total of six credits. Prerequisites: HIST 142, HOLO 252/HIST 252, and one 300-level or higher HOLO depth course, or permission of instructor. Occasionally

**HOLO 497 INTERNSHIP**
1-6 credits
Focus is on a student researching, organizing, and writing about Holocaust-based topics in cooperation with the Cohen Center for Holocaust Studies or some other society, resource center, museum, or foundation dedicated to Holocaust Studies. May be repeated to a total of six credits. Prerequisites: HOLO 252/HIST 252 and permission of instructor. Occasionally

**HOLO 498 INDEPENDENT STUDY**
1-6 credits
In-depth study of a topic or problem selected and pursued in consultation with faculty member. Design will be at faculty member’s discretion. May be repeated to a total of six credits. Prerequisites: HIST 142, HOLO 252/HIST 252, and one 300-level or higher HOLO depth course, or permission of instructor. Occasionally

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**Interdisciplinary**

Students are encouraged to select interdisciplinary studies, which integrate and synthesize fields of knowledge, in fulfillment of General Education requirements. One interdisciplinary course may be used in each of the distribution areas of Arts and Humanities (IDAH) and Social Sciences (IDSS). Interdisciplinary courses may be offered Fall or Spring, depending on student and faculty interest.

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**Arts and Humanities (IDAH)**

**IDAH 290 TOPICS IN ARTS AND HUMANITIES**
1-4 credits
Selected interdisciplinary topics in Arts and Humanities. May be repeated as topics change. Occasionally

**IDAH 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent of the instructor who will supervise the independent study is required. Repeatable to a total of 6 credits.

**IDAH 498 INDEPENDENT STUDY**
1-6 credits
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

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**Social Sciences (IDSS)**

**IDSS 150 TECHNOLOGY AND CIVILIZATION**
The development of technological literacy through an examination of the evolution, use, and significance of technology; the social and environmental issues associated with industrialization; and the contemporary technological alternatives that affect the nature of the human condition. Occasionally

**IDSS 290 SPECIAL TOPICS**
1-3 credits
Selected topics that require interdisciplinary approaches. May be repeated as topic changes. Prerequisite: course work in at least two social science disciplines or permission of instructor. Occasionally

**IDSS 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**IDSS 490 ADVANCED SPECIAL TOPICS**
This is an advanced course for in-depth exploration of social science topics from an interdisciplinary perspective. It may be repeated as topic changes. Prerequisites: junior or senior status, course work in at least three social science disciplines and permission of instructor. Occasionally

**IDSS 498 INDEPENDENT STUDY**
1-6 credits
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

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**Sciences/Mathematics (IDSM)**

**IDSM 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**IDSM 301 THE WEB OF SCIENCE I**
This course provides extensive hands-on experience in a laboratory setting for elementary education majors. Emphasis is on discovery-based learning: observing, classifying, measuring, predicting, describing, and inferring. It is an integrated natural science, content-oriented curriculum, based on the National Science Standards and New Hampshire Science Curriculum Frameworks. Prerequisites: BIO 151/152, BIO 153/154, GEOL
201, CHEM 103/107, MATH 171/172, ESEC 100, ESEC 150, and ESEC 250, or permission of the instructor.

**IDSM 401 THE WEB OF SCIENCE II**  
This course provides extensive hands-on experience in a laboratory setting for elementary education majors. Emphasis is on inquiry-based learning: originating problems, formulating hypotheses, designing investigations, testing ideas, and synthesizing knowledge. It is an integrated natural science, content-oriented curriculum, based on the National Science Standards and New Hampshire Science Curriculum Frameworks. Prerequisite: IDSM 301 or permission of the instructor.

**IDSM 498 INDEPENDENT STUDY**  
1-6 credits  
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

### Journalism

**JRN 200 INTRODUCTION TO MASS MEDIA**  
A study of the techniques and effects of mass media in modern society – an interdisciplinary approach to understanding the relationship between the citizen and information sources. Press, radio, TV, film, and other sources analyzed from historical, technical, ethical, and potential viewpoints. Required as a first course for Journalism majors and open to all students as space is available. *Fall, Spring*

**JRN 201 NEWS WRITING I-INTRODUCTORY**  
Basic principles of newswriting, with special attention to leads, story structure, unity, completeness, and accuracy. Introduction to speech coverage, interview techniques, feature, and specialized writing. Lecture, practice, and field work, with emphasis on increasing speed. Students are expected to pass a grammar test as part of this course. Prerequisites: ENG 101 and typing skills. *Fall, Spring*

**JRN 270 BROADCAST JOURNALISM LAB**  
1 credit  
Laboratory is required for students taking JRN 302 Broadcast Journalism.

**JRN 271 RADIO JOURNALISM LAB**  
2 credits  
Laboratory is required for students taking JRN 308 Radio Journalism.

**JRN 272 TELEVISION JOURNALISM LAB**  
2 credits  
Laboratory is required for students taking JRN 408 Television Journalism.

**JRN 273 COMMUNITY TV NEWS LAB**  
2 credits  
Laboratory is required for students taking JRN 446 Community Television News.

**JRN 276 WKNH NEWS LAB**  
2 credits  
Producing regular news or public affairs programs for broadcast on WKNH. May be taken twice. Prerequisites: COMM 280, JRN 201 and permission of instructor.

**JRN 280 EQUINOX STAFF**  
2 credits  
Training in news writing, photojournalism and graphic design for the Equinox. May be repeated for a maximum of 12 credits. Prerequisite: Permission of instructor. *Fall, Spring*

**JRN 282 EQUINOX EDITOR**  
Edit and manage the KSC newspaper, The Equinox. Positions include: executive editor, managing editor, business manager, section editors, photography editor, graphics editor, advertising director, and copy editor, among others. May be repeated to a maximum of 12 credits. Prerequisite: Permission of instructor. *Fall, Spring*

**JRN 290 TOPICS IN MASS MEDIA**  
Historical, sociological, and philosophical investigation of topics in journalism and mass communication. Includes broadcasting, print, graphics and international communication. A term paper using mass media trade and scholarly literature is required. May be repeated for credit. Prerequisite: JRN 200 or permission of instructor. *Annually*

**JRN 294 COOPERATIVE EDUCATION**  
1-6 credits  
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

**JRN 298 INDEPENDENT STUDY**  
1-6 credits  
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

**JRN 299 COOPERATIVE EDUCATION**  
1-6 credits  
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

**JRN 298 INDEPENDENT STUDY**  
1-6 credits  
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**JRN 301 NEWS WRITING II–REPORTING**  
Instruction in reporting techniques and practice in public affairs beat reporting, on and off campus. Newsroom behavior for the reporter stressed, along with introduction to computer terminal use in modern newspapers. Basic copy editing and rewrite experience. Prerequisite: JRN 201 or written permission of instructor. Recommended corequisite: JRN 280. *Fall, Spring*

**JRN 302 BROADCAST JOURNALISM**  
Basic principles of journalism for radio and television news. Introduction to interview techniques, electronic news gathering, and practical aspects of researching, writing, producing, and reporting news for radio and television. Lecture, practice, and field work. Corequisite: JRN 270. Prerequisite: JRN 201 or permission of instructor. *Fall, Spring*
JRN 306 NEWS EDITING
Instruction and practice in copy editing, using approved newsroom techniques. Concentrates on speed, accuracy, style, and decision under pressure, with attention to libel and copyright law. Headline writing, picture editing, make-up, and the electronic newsroom are studied. Prerequisite: JRN 301 or written permission of instructor. Fall

JRN 308 RADIO JOURNALISM
An advanced course in radio news, with special attention to story structure, public affairs programs, and documentaries. Introduction to public affairs and documentary research, script writing and production. Productions for WKNH. Lecture, practice and field work. Recommended corequisite: JRN 271. Prerequisite: JRN 302 or permission of instructor. Fall, alternate years

JRN 310 MEDIA HISTORY AND THEORY
Readings in the history of mass communication and mass communication theory. Students use some primary research methods such as survey, interview, and historical searches. This course is writing intensive. Prerequisite: JRN 200 or written permission of instructor. Fall, odd years

JRN 315 TELEVISION NEWS STUDIO
4 credits
Students participate in television field reporting to be showcased in studio-based news shows cablecast for the campus and city of Keene. Students develop journalistic and technical skills. Prerequisite: JRN 302 or permission of instructor. Fall

JRN 317 JOURNALISM RESEARCH METHODS
How to collect facts, check their accuracy and report them with clarity and logic. The course will focus on survey and library research with particular emphasis on accessing and making good use of traditional paper/print and computer data bases in the pure and social sciences, including but not limited to the field of government, law, medicine, health, education, and the environment. Prerequisite: JRN 201. Fall

JRN 322 MEDIA ETHICS
Teaching and practice in ethics by use of case studies. Students are taught that information in journalism is a social good, not merely a commodity, and that the journalist shares a responsibility for what is transmitted to the public. Cross-listed as PHIL 322. Prerequisite: JRN 200 or PHIL 220, or permission of instructor. Spring

JRN 380 INTERNSHIP
3-12 credits
A supervised, contracted internship arranged by the student with an approved publication, or, in certain cases, with campus offices, either for a semester’s work or summer employment. Contract must be approved by the Journalism faculty. Responsible faculty supervision and review are required.

JRN 401 FEATURE WRITING
Instruction and practice in writing news and personality feature articles for newspapers and magazines. Analytical reading of published pieces. Primary emphasis is on research, the interview, and writing (composition). Prerequisite: JRN 301 or permission of instructor. Fall, occasionally

JRN 408 TELEVISION JOURNALISM
An advanced course in television news, public affairs programs, and documentaries. Introduction to public affairs and documentary research, scriptwriting and production. News for closed-circuit television at Keene State College. Lecture, practice, and field work. Recommended corequisite: JRN 272. Prerequisite: JRN 302 or permission of instructor. Spring, odd years

JRN 410 PUBLIC AFFAIRS REPORTING
For one-half semester the student covers government functions in city, county, region, and state, to sharpen reporting skills; during the second half, the student is guided into reporting trends and events affecting the people of Keene and the region. Prerequisite: JRN 301 or permission of instructor. Fall, occasionally

JRN 446 COMMUNITY TELEVISION NEWS
A performance course in television news, with special attention to developing a regularly cablecast community television newscast for the Keene area. Introduction to formatting the news and presenting it under deadline. Lecture, practice, and field work. Recommended corequisite: JRN 273. Prerequisite: JRN 302. Spring, even years

JRN 490 ADVANCED SPECIAL TOPICS
Directed study in specialized aspects of print and broadcast media history, press law, content, techniques, production, management, or selected concentrations therefrom. Prerequisite: written permission of instructor.

JRN 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours credit) to maximum of 12 credits per degree program. Prerequisites: JRN 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

JRN 498 INDEPENDENT STUDY
1-6 credits
Under faculty supervision, the student develops and completes a program of research or development in a worthwhile aspect of journalism or mass communications. May be repeated to a total of 6 credits. Prerequisite: written permission of instructor.

KSC Courses

KSC 270 LEARNING ASSISTANT
1-3 credits
Under faculty supervision, learning assistants develop and practice instruction and interaction skills for working effectively with students in a specific discipline. Supplemental instructors and undergraduate teaching assistants are examples. May be repeated up to 6 credits. Fall, Spring
KSC 690  GRADUATE SPECIAL TOPICS  
1-3 credits  
Study of selected topics in academic disciplines based on the needs and interests of the student. Intended for professionals seeking continuing study, and middle school and high school educators seeking advanced study in content areas. Prerequisite: Permission of instructor. May be repeated for credit. Fall, Spring, Summer

Management

MGT 101  INTRODUCTION TO MANAGEMENT  
2 credits  
Examination of the principles underlying the management of organizational activities. Management theory and practice are studied, including the basic functions of management: planning, organizing, leading, and controlling; decision making, motivation, leadership and communication. Topics include globalization, corporate social responsibility, and the changing environment of business. Fall, Spring

MGT 202  QUANTITATIVE DECISION MAKING  
4 credits  
Introduction to quantitative analysis for management to provide students with an opportunity to learn the basic concepts and the quantitative/analytical tools used in the process of decision making and problem solving. Prerequisite: MGT 101, and either MATH 102 or passing grade on the Math Assessment Exam. Fall, Spring

MGT 208  SMALL BUSINESS PRACTICUM  
4 credits  
Under faculty supervision, students work with local business by assisting senior students in Small Business Institute projects. Prerequisite: permission of instructor. Spring

MGT 213  FINANCIAL ACCOUNTING  
4 credits  
Introduces accounting information with an emphasis on its use in decision making by owners, creditors, managers, and government for both profit and non-profit organization. Topics include the accounting profession, double-entry accounting system, information systems, ethics, taxation, and internal control systems. Fall, Spring

MGT 214  MANAGERIAL ACCOUNTING  
4 credits  
Course focuses on accounting information used by managers in planning, controlling operations and decision making within organizations. Topics include cost concepts and classifications, cost volume profit analysis, costing systems, and budgeting. Prerequisite: MGT 213 or permission of instructor. Fall, Spring

MGT 290  SPECIAL TOPICS  
1-4 credits  
Study of a selected topic in management. May be repeated as topics change. Occasionally

MGT 292  TRANSITION TO THE WORKPLACE  
1 credit  
Topical seminar focusing on the transition from college life to the workplace. Seminar topics include preparation of an effective resume, successful interviewing, business etiquette, locating and contacting prospective employers, building and maintaining job search momentum, development of an overall employment search strategy, and employer/employee expectations in the workplace. Graded Pass/Fail. Spring

MGT 298  INDEPENDENT STUDY  
1-4 credits  
Opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 8 credits. Fall, Spring

MGT 301  ORGANIZATIONAL THEORY AND BEHAVIOR  
4 credits  
Analyzes approaches to managing modern organizations, using organizational theory to assess problems of administration in public and private organizations. Emphasizes internal structure, leadership, planning and personnel utilization problems, and external influences, bargaining and coalition formation relationships, and the nature of authority and organizational behavior. Prerequisites: MGT 101 and junior standing, or permission of instructor. Fall, Spring

MGT 306  PERSONAL FINANCIAL PLANNING  
2 credits  
Introduces students to a comprehensive examination of the concepts and practical applications in financial planning. Topics include money management, tax planning, risk management and insurance, investment planning, retirement planning and estate planning. Prerequisites: MGT 213 and junior standing, or permission of instructor. Alternate years

MGT 308  SMALL BUSINESS ENTREPRENEURSHIP  
2 credits  
Applies modern management techniques to small businesses. Includes business plan development, financial and administrative controls, marketing strategy, and employee relations. Prepares students for working with small business clients in practicum course. Prerequisites: ECON 201 or 202, MGT 214 and 331, and junior standing, or permission of instructor. Occasionally

MGT 311  INTERMEDIATE ACCOUNTING  
4 credits  
Review of accounting cycle, balance sheet valuations, principles relating to financial statements, income determination, disclosure problems, cash management, investments, receivables, and plant assets. Includes alternative accounting procedures. Prerequisites: MGT 214 and junior standing, or permission of instructor. Occasionally
MGT 319  FINANCIAL MANAGEMENT  
4 credits  
Study of financial decision making based in contemporary financial theory and world economic conditions. The course will focus on financial theory and tools applicable to investing, capital budgeting, and capital structure decisions. Students are introduced to a variety of valuation techniques and to the capital markets and their influence on corporate financial decisions. Prerequisites: MGT 202, MGT 214, and junior standing, or permission of instructor. Fall, Spring

MGT 324  HUMAN RESOURCE MANAGEMENT  
4 credits  
Overview of human resource management, including human resource planning, recruitment, selection, training and development, performance appraisals, compensation, health and safety, employee and labor relations, employment law, job design and analysis, and human resource research. Prerequisites: MGT 101 and junior standing, or permission of instructor. Fall, Spring

MGT 331  PRINCIPLES OF MARKETING  
4 credits  
Study of marketing behavior of the firm as it supplies goods and services to consumers and industrial users. Optimal “marketing mix,” product design, product line policies, branding, pricing, promotion, consumer behavior, and channels of distribution. Prerequisites: MGT 202, MGT 213, and junior standing, or permission of instructor. Fall, Spring

MGT 333  ADVERTISING AND PROMOTION  
2 credits  
The role of advertising and promotion in society and in the marketing mix of the firm. Tools of promotion, budgeting, media, campaign evaluation and research, and criteria for selection of most effective media for the target market and products. Prerequisites: MGT 331 and junior standing, or permission of instructor. Fall or Spring

MGT 345  OPERATIONS MANAGEMENT  
4 credits  
Gives students the opportunity to learn basic operations management techniques to improve the efficiency with which work is accomplished in any type of organization. Inventory control models, queuing theory, simulation, and decision theory are among the topics covered. Prerequisites: MGT 202 and 213 and junior standing, or permission of the instructor. Fall, Spring

MGT 350  BUSINESS LAW  
2 credits  
Presents law as an expanding social institution. Nature and sources of law, courts and court procedures, crimes and torts, contracts, agency and personal property, and types of business organizations. Prerequisites: MGT 101 and junior standing, or permission of instructor. Fall, Spring

MGT 355  BUSINESS NEGOTIATIONS  
2 credits  
In this highly interactive course, students are introduced to the fundamental concepts of negotiation and the negotiation styles, tactics, and strategies used by corporate and public sector negotiators, collective bargainers, and mediators. Practical application of negotiation theory and conflict management in basic and increasingly complex settings are examined. Prerequisites: MGT 101, MGT 301, and senior standing, or permission of instructor. Occasionally

MGT 360  INTERNATIONAL MANAGEMENT  
4 credits  
General introduction to the international business environment with emphasis on key forces in the global business environment. Topics include country and culture differences, political, legal, financial and labor forces and strategies for entering international markets. Recommended in conjunction with an international exchange. Prerequisites: MGT 101, MGT 213, and junior standing, or permission of instructor. Alternate years

MGT 381  MANAGEMENT INFORMATION SYSTEMS  
4 credits  
Survey course based on the premise that information systems knowledge is essential for creating competitive firms, managing global corporations, adding business value, and producing useful products and services to customers. Emphasis is on digital integration from the warehouse to the executive suite. Prerequisites: CS 101, MGT 202, MGT 213, and junior standing, or permission of instructor. Fall, Spring

MGT 402  ORGANIZATIONAL DEVELOPMENT  
4 credits  
Overview of organization development, major theories in the field, organizational change; an understanding of power and politics in organizations; theory and practice of implementing organizational change; dealing with resistance to change and research techniques. Prerequisite: MGT 301 or permission of instructor. Alternate years

MGT 408  SMALL BUSINESS INSTITUTE  
4 credits  
Under faculty supervision, students will serve in teams as consultants for local small businesses or non-profit organizations. Student teams will write comprehensive case analyses and business plans. Students in this course participate in national competition. Prerequisite: permission of instructor. Spring

MGT 410  PRINCIPLES OF INVESTMENT  
4 credits  
Introduction to financial markets including the organization, regulation and ethics of national and international markets. Research, analysis, and valuation of financial instruments including equities, fixed income and leveraged securities, and derivatives are covered. Prerequisites: MGT 319 and senior standing, or permission of instructor. Spring

MGT 422  LABOR RELATIONS  
2 credits  
Covers history of the labor movement, labor relations policy and practice, contract negotiations, application of Labor Management Relations Act as amended, collective bargaining theory and practice, and legal constraints. Prerequisites: MGT 324 and senior standing, or permission of instructor. Alternate years
MGT 425 COMPENSATION
2 credits
Theories, techniques, and practices of organizations in establishing compensation programs for employees and executives. Influence of motivation on establishment of total compensation for personnel of modern organizations, including wages and salaries, incentive payments, self-improvement programs, pensions, and insurance programs. Prerequisites: MGT 324 and senior standing, or permission of instructor. Alternate years

MGT 434 MARKETING RESEARCH
4 credits
Study of the marketing research process, including management uses of marketing research, the scientific method in marketing, and research procedures. Examination of exploratory and secondary research, including data collection, tabulation, and analysis. Emphasis on market segment, product, advertising, and sales analysis research. Prerequisites: MGT 331 and senior standing, or permission of instructor. Spring

MGT 435 MARKETING MANAGEMENT
2 credits
Use of marketing principles and data evaluation in the development of alternatives and solutions to real-world situations. Students analyze cases and problems of diverse industries reflecting current happenings in the business world and the public sector. Prerequisites: MGT 214, MGT 331, and senior standing, or permission of instructor. Alternate years

MGT 451 SOCIAL, LEGAL, AND POLITICAL ENVIRONMENT OF BUSINESS
4 credits
Advanced study of management philosophy and practice. Focus is on the manager’s role as influencing and influenced by organizational structures, organization goals, and social, legal, political, and ecological constraints. Students are encouraged to develop a personal management philosophy. Prerequisites: MGT 301 and senior standing, or permission of instructor. Fall, Spring

MGT 490 ADVANCED SPECIAL TOPICS
1-4 credits
Exploration of an advanced major area of management, depending on student interest. May be repeated as topics change. Prerequisites: junior standing or permission of instructor. Occasionally

MGT 491 BUSINESS POLICY AND STRATEGY
4 credits
Capstone course requiring the application of all business disciplines to real-world problems. Focuses on the decision-making process for the manager as a strategist and organization builder. Prerequisites: senior standing and completion of all requirements in Management Core Curriculum, or permission of instructor. Fall, Spring

MGT 493 MANAGEMENT INTERNSHIP
4-8 credits
Opportunity to compare management theory with practice through on-the-job experience in participating organizations. Regular meetings with the instructor ensure maximum learning. A research paper is required. May be repeated for a maximum of 8 credits. Prerequisites: 2.50 GPA overall and permission of instructor. Fall, Spring

MGT 494 ADVANCED COOPERATIVE EDUCATION
12 credits
Sequential work-learning experience for which compensation may be received. Placements arranged by Management faculty. Supervision and evaluation conducted by both work-site supervisor and faculty. Normally, 480 hours of work is expected for 12 credits. Prerequisites: 2.0 cumulative GPA, Declaration of Major, and permission of instructor. Graded Pass/Fail. Fall, Spring

MGT 495 SEMINAR
1-4 credits
Exploration of major areas of management under direction of Management faculty. Subject matter depends on student interest. Prerequisite: Management major only and junior standing, or permission of instructor. Repeatable to a maximum of 4 credits. Fall, Spring

MGT 498 INDEPENDENT STUDY
1-8 credits
Advanced individualized study in an area of management not normally available in the curriculum. Repeatable to a maximum of 8 credits. Prerequisites: junior standing, permission of instructor. Fall, Spring

Mathematics

MATH 020 ALGEBRA PREPARATION
Intensive review of the arithmetic and basic algebra needed for success in MATH 120, MATH 130, and many science courses. Credits do not apply toward graduation. Graded Pass/No Pass. Course may be repeated until passed. Fall, Spring

MATH 071 ELEMENTARY EDUCATION MATH PREPARATION
Intensive review of the basic mathematics needed for success in MATH 171 Structure of Number Systems. Topics: place value, whole number computation, fractions, decimals, percents, integers, basic algebra, and problem solving. Credits do not apply toward graduation. Graded Pass/No Pass. Course may be repeated until passed. Fall, Spring

MATH 102 MATHEMATICS FOR MANAGEMENT
1 credit
Intensive review of fractions, decimals, percents, order of operations, solving equations, evaluating formulas, ratios and proportions and linear functions. Open only to Management majors and minors who do not pass the mathematics assessment exam for management. Fall, Spring

MATH 115 CONTEMPORARY MATHEMATICS
Exploration of areas of mathematics which impact on contemporary society. Topics selected from voting theory, fair
apportionment, routing, scheduling, growth, patterns and symmetry, and applications to social issues. Emphasis is on concepts rather than on manipulative skills. Knowledge of basic arithmetic and elementary algebra is expected. Fall, Spring

MATH 120 APPLIED ALGEBRA AND TRIGONOMETRY
Fundamental algebraic concepts with emphasis on the development of problem-solving techniques and analytical thinking. Topics include linear and quadratic equations, properties of graphs of polynomials, functions and graphs, trigonometry, and their applications to science and technology. Not open to students who have taken MATH 130 or MATH 151. Fall, Spring

MATH 130 PRECALCULUS
Polynomials, rational functions, exponents and logarithms, trigonometric functions with an exploration of their graphs. A high-level algebra-trigonometry course intended for students who plan to take calculus. Not open to students who have taken calculus in college. Presumes competency in the content of MATH 120. Fall, Spring

MATH 141 INTRODUCTORY STATISTICS
Basic tools of descriptive statistics, an introduction to probability, probability distributions, normal distributions, estimates and sample sizes, hypothesis testing, elementary correlation and regression and contingency tables. May not be taken for credit by students who have completed PSYC 251. Fall, Spring

MATH 151 CALCULUS I
4 credits
Limits, continuity, the derivative, applications of the derivative, the Riemann integral, and the Fundamental Theorem of Calculus. Some applications of the integral are considered. Presumes competency in the content of MATH 130. Fall, Spring

MATH 152 CALCULUS II
4 credits
Applications of the integral, transcendental functions, integration techniques, and infinite series. Prerequisite: Grade of C or better in MATH 151. Fall, Spring

MATH 171 STRUCTURE OF NUMBER SYSTEMS
Examines the structures and properties of mathematics while focusing on the development of problem-solving skills. Includes sets, functions, whole numbers, fractions, number theory, and integers. Intended for prospective elementary school teachers. Utilizes appropriate grade-level technology. Prerequisite: passing grade on the proficiency examination. Formerly MATH 101. Fall, Spring

MATH 172 APPLICATION OF NUMBER SYSTEMS
Considers applications of rational numbers, decimals, percent, probability and statistics, counting techniques, geometry, and measurement. Intended for prospective elementary school teachers. Uses appropriate grade-level technology. Prerequisite: C or higher grade in MATH 171. Fall, Spring

MATH 225 INTRODUCTION TO ABSTRACT MATHEMATICS
Fundamentals of sets, logic, and proof as a foundation for higher-level mathematics courses. Topics include relations, functions, and mathematical induction. Prerequisite: Grade of C or better in MATH 151. Fall, Spring

MATH 231 LINEAR ALGEBRA
Finite dimensional vector spaces, linear transformations, elementary theory of matrices, and determinants. Prerequisite: MATH 152. Spring

MATH 235 DISCRETE MATHEMATICS
Introduction to mathematics of enumeration. Includes sets, number system, nature of proof, formal logic, functions and relations, recursion, basic graph theory, and Boolean algebra. Applications related to Computer Science, Biology, Chemistry, and Political Science. Prerequisite: MATH 130. Fall

MATH 242 APPLIED STATISTICS
Hypothesis testing, single linear regression, and one-way analysis of variance using calculators and statistical software. Includes problems dealing with multiple linear regression, multi-way analysis of variance, nonparametric statistics, and computer applications. Prerequisite: MATH 141 or PSYC 251. Spring

MATH 251 CALCULUS III
4 credits
Course in multivariable calculus. Topics include vector algebra and geometry, partial derivatives, extrema of functions of several variables, multiple integrals, vector fields, line and surface integrals, and Green’s, Stokes’s, and Divergence theorems. Appropriate applications are considered; students use a computer algebra system throughout the course. Prerequisite: Grade of C or better in MATH 152. Fall, Spring

MATH 260 NUMERICAL METHODS
Programming of scientifically oriented problems. Topics include quadrature, interpolation, curve fitting, and the solution of nonlinear equations. Error analysis is made whenever feasible. Prerequisites: MATH 152 (may be taken concurrently), and CS 140. Spring, even years

MATH 265 MATHEMATICAL MODELING
The use of undergraduate mathematics to obtain a solution to realistic problems in areas such as economics, social science, engineering, and operations research. The course focuses on the development of mathematical models and the model building process. Pre- or corequisite: MATH 151. Spring

MATH 275 GEOMETRY FOR K-9 TEACHERS
An introduction to geometry for the elementary/middle school curriculum. Emphasis on proof techniques and content areas of Euclidean and non-Euclidean topics. Prerequisite: MATH 172 or MATH 151. Spring

MATH 290 SPECIAL TOPICS
1-3 credits
Topics from pure or applied mathematics. Prerequisite: permission of instructor.
MATH 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

MATH 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

MATH 310 HISTORY OF MATHEMATICS
Analyzes the development of various branches of mathematics from ancient times through calculus of 17th-century Europe. Addresses the influences of different cultures on mathematics. Algebra, trigonometry, plane geometry, and calculus are used to understand mathematical developments. Prerequisites: MATH 151 and either MATH 275 or MATH 251. Fall

MATH 320 GEOMETRY
Postulational treatment of Euclidean geometry. Incidence geometry, distance function and congruence, separation, convexity, angular measure, geometric inequalities, and synthetic geometry. Discussion of some non–Euclid geometrics. Prerequisite: C or higher grade in MATH 225. Fall

MATH 330 ADVANCED SPECIAL TOPICS
Topics from fields in pure and applied mathematics. Prerequisite: Permission of instructor. Fall

MATH 331 MODERN ALGEBRA
Basic concepts of groups, rings, and fields. Prerequisite: C or higher grade in MATH 225. Fall

MATH 337 NUMBER THEORY
Properties of the integers: multiplicative structure, divisibility; mathematical induction, division algorithm, greatest common divisor, least common multiple, fundamental theorem of arithmetic, and congruence arithmetic. Applications (e.g. Fermat’s Last Theorem) if time permits. Prerequisite: C or higher grade in MATH 225. Spring, odd years

MATH 340 ANALYTIC GEOMETRY
The algebra, geometry, and calculus of functions of a complex variable. Analytic functions, Taylor and Laurent series, and integration in the complex plane. Prerequisite: MATH 251. Fall, even years

MATH 341 MATHEMATICAL PROBABILITY
Discrete sample spaces, combinatorics, postulates, and elementary theorems of probability; random variables, and probability distributions; continuous random variables, densities, expectation, moments, and moment generating functions; sums of random variables and the central limit theorem. Prerequisite: MATH 251. Fall

MATH 342 MATHEMATICAL STATISTICS
Sampling distributions, sampling from a normal population, point estimation, and the method of maximum likelihood. Also includes confidence intervals, hypothesis testing, regression, correlation, and analysis of variance. Prerequisite: MATH 341. Spring

MATH 351 INTERMEDIATE ANALYSIS
A rigorous presentation of functions of one variable: limit, continuity, derivative, and Riemann integral. Prerequisites: Grade of C or better in MATH 152 and MATH 225. Spring

MATH 361 DIFFERENTIAL EQUATIONS
Introduction to differential equations of all orders, and methods of finding exact and approximate solutions. Appropriate applications and Laplace transforms are discussed. Prerequisite: MATH 251; PHYS 241 recommended. Spring

MATH 371 MATH CONCEPTS FOR THE MIDDLE SCHOOL
Focuses on the use in the middle school of statistics, discrete mathematics, set theory, number theory, and probability to obtain solutions to realistic problems, and on the teaching of algebra through physical models. Prerequisites: MATH 141, MATH 225, MATH 235, and MATH 275. Spring

MATH 430 INTRODUCTION TO APPLIED MATH
Introduction to selected topics, such as Fourier series, vector analysis, special functions, and partial differential equations. Prerequisite: MATH 361. Fall, odd years

MATH 475 ISSUES AND TRENDS IN MATH EDUCATION
Analyzes the development of historical, mathematical, and psychological factors influencing K-16 mathematics curricula. Emphasis is on the content of Mathematics and its interface with current major issues in Mathematics education. Prerequisites: MATH 310 and permission of instructor. Fall

MATH 490 ADVANCED SPECIAL TOPICS
Topics from fields in pure and applied Mathematics. Prerequisite: permission of instructor. Fall

MATH 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: MATH 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

MATH 498 INDEPENDENT STUDY
1-6 credits
Individual investigation of selected topics. May be repeated to a total of 6 credits. Prerequisite: permission of instructor.
Meteorology

**MET 225 METEOROLOGY**
Measurement and discussion of temperature, pressure, humidity, precipitation and wind. The atmosphere, solar influence, gas laws, and layer stability. Study of horizontal motion, circulation of the atmosphere, fronts, and analysis of weather maps. **Fall, Spring**

**MET 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**MET 498 INDEPENDENT STUDY**
1-6 credits
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

Modern Languages

**ML 101 THE WORLD OF LANGUAGE**
An introduction to the concept of language. Topics include verbal and non-verbal communication, machine language, taboos, sexist language, language acquisition, and the specialized language of politicians, scientists, and the media. Students become familiar with current linguistic research. **Fall**

**ML 191 BEGINNING LANGUAGE I**
Introduction to communication in a foreign language other than French, German, or Spanish with emphasis on listening and speaking skills.

**ML 192 BEGINNING LANGUAGE II**
Continuation of the study of a foreign language other than French, German, or Spanish. Continuation of the development of oral communication skills. Prerequisite: ML 191 or the equivalent in prior study of this particular language.

**ML 290 SELECTED TOPICS**
Selected topics related to Modern Language study (e.g., Caribbean studies, the Franco-American experience, etc.). May be repeated as topics change. Occasionally.

**ML 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**ML 498 INDEPENDENT STUDY**
1-6 credits
Independent study under faculty supervision of a problem in an area of individual interest. Initiative and self-direction required. May be repeated to a total of 6 credits. Prerequisite: Permission of instructor.

Music

Courses in Music are of two basic types: general survey courses for all students (e.g., MU 103, 104, 212, 218) and specialized courses for the Music major or minor. Performing groups are open to all students by audition. Applied Music courses are open only to Music majors and minors. The Applied Music fee schedule is available in the Bursar’s Office.

**MU 100 MUSIC WORKSHOP**
No credit
Includes such musical activities as meetings, recitals, concerts, small ensemble performances, master classes, and guest lectures. Must be scheduled each semester by all full-time students in the Bachelor of Music degree programs, except during the student teaching semester. **Fall, Spring**

**MU 101-102 APPLIED MUSIC**
1, 2, or 4 credits each
Individual instruction consisting of twelve 50-minute lessons (for 2 or 4 credits) or twelve 25-minute lessons (for 1 credit) on an instrument or in voice. Only Performance majors may take this course for 4 credits. **Fall, Spring**

**MU 103 FUNDAMENTAL MUSIC SKILLS**
4 credits
Study of concepts, skills, and techniques necessary to read and understand music. Not available for credit toward a Music major or minor. **Fall, Spring**

**MU 104 INTRODUCTION TO MUSIC MASTERWORKS**
Analytical and critical listening to music of various historical periods. Not available for credit toward a Music major or minor. **Fall, Spring**

**MU 105 VOICE CLASS**
1 credit
Emphasizes the development and improvement of proper vocal techniques for those with little or no vocal training. Helps non-Music majors with a variety of interests in singing. **Fall, Spring**

**MU 108 PIANO CLASS I**
2 credits
For students with little or no previous study of a keyboard instrument. Instruction takes place in a digital piano laboratory and emphasizes the development of music reading and playing skills for lifetime enjoyment. Designed for non-music majors/minors. **Fall, Spring**
MU 109 PIANO CLASS II  
2 credits  
Continuation of MU 108. Development of previous experience at the keyboard. Emphasis on studying and playing easy, original keyboard music. Digital piano lab allows for individual level and pace. Designed for non-music majors/minors. Prerequisite: MU 108 with grade of C or better, or by audition and permission of instructor. Spring

MU 110 GUITAR CLASS  
1 credit  
Introductory study of the guitar. Emphasis on development of music reading skills, basic chording, plectrum and finger picking techniques, and single-line melodic playing in the first position.

MU 112 LATIN AMERICAN MUSIC  
An historical survey of Latin American folk and art music which emphasizes African, European, and Amerindian roots of representative styles. Students learn through readings, lectures, listening, and performance on indigenous instruments. Open to Music majors and non-majors. Fall

MU 114 MUSIC CULTURES OF THE WORLD  
A study of selected folkloric, popular and non-Western art music traditions and the respective impact they have had historically, socially and culturally. Fall, Spring

MU 115 WOMEN IN MUSIC  
Study of women composers, teachers, performers, and patrons. Includes a chronological survey of the issues that influence women’s musical contributions. Open to Music majors and non-majors. Spring

MU 116 HISTORY OF ROCK & ROLL  
Study of the growth and diffusion of popular music and its surrounding culture in the '50s and '60s, including concurrent historical events and movements, as well as trends in other arts. Fall, Spring

MU 118 FUNCTIONAL PIANO I  
2 credits  
For Music majors and minors with limited piano background. Emphasis on keyboard fundamentals and reading keyboard (grand staff) music. Preparation for the required departmental piano skills test. Instruction takes place in a digital piano laboratory. Prerequisites: Music major or minor status and achievement of skills comparable to MU 131 Basic Theory. Fall, Spring

MU 119 FUNCTIONAL PIANO II  
2 credits  
Continuation of MU 118. More advanced study and development of keyboard technique and performance. Focus on accumulation of repertoire and skills necessary for successful completion of departmental piano skills test. May be repeated once for credit, with study of additional repertoire. Prerequisite: MU 118 with grade of C or better, or by audition and permission of instructor. Fall, Spring

MU 131 BASIC THEORY  
For Music majors and minors with limited background in theory. Emphasis on music notation, rhythmic values, scales, intervals, triads, and interpretive principles. Includes sight singing and dictation. Does not count toward Music major or minor. Fall

MU 151 MUSIC THEORY I  
2 credits  
Rudiments (basic terms, key signatures, scales and modes, triads), cadences, and basics of four-part harmonic writing using all root position chords. Prerequisite: Skill level comparable to completion of MU 131 with grade of C or better, determined through advisement and/or testing, or permission of instructor. Fall, Spring

MU 152 MUSIC THEORY II  
2 credits  
Dominant seventh and nondominant seventh chords. Part-writing using root position and first inversion chords. Completion of figured bases and harmonizing a simple melody. Prerequisite: MU 151 with a grade of C or better, or permission of instructor. Fall, Spring

MU 161 AURAL SKILLS I  
1 credit (meets 2 hours weekly)  
Aural dictation skills including consonant intervals, major and minor triads, progressions of primary major chords in root position, and basic rhythms in simple meter. Sight-singing of major-key diatonic melodies, major scale. Prerequisite: MU 131 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 162 AURAL SKILLS II  
1 credit (meets 2 hours weekly)  
Aural dictation skills including consonant and dissonant intervals, diminished and augmented triads, progressions of primary major chords and minor chords. Rhythmic dictation in simple meters with sixteenth notes, with introduction to compound meter. Sight-singing of major- and minor-key diatonic melodies and scales. Prerequisite: MU 161 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 171-178 MUSIC ENSEMBLES  
1 credit each; may be repeated  
171 Chamber Ensemble  
Open by audition to a limited number of students. Performance of traditional and/or contemporary chamber works in various ensembles. Fall, Spring

172 KSC Concert Choir  
Open by audition to any student with adequate singing ability, within limits of balance of voices. Fall, Spring

173 KSC Chamber Singers  
Open to a limited number of singers selected by audition. Fall, Spring

174 Orchestra  
Open to any student with adequate playing ability, within limits of balanced instrumentation. Fall, Spring

175 Jazz Ensemble  
Open by audition to a limited number of players. A select group specializing in jazz of various periods. Fall, Spring
177 Concert Band
Open by audition to any student with adequate playing ability, within limits of balanced instrumentation. Fall, Spring

178 Guitar Orchestra
A performing group composed of various sizes of classical guitars, specializing in the performance of works for multiple guitars. Audition required. Fall, Spring

MU 181 ACCOMPANYING
1 credit
Pianists are guided through the characteristics of appropriate collaborative performance practices in both vocal and instrumental accompanying. Open by audition. Fall, Spring

MU 201-202 APPLIED MUSIC
1, 2 or 4 credits each
Individual instruction consisting of twelve 50-minute (for 2 or 4 credits) or twelve 25-minute lessons (for 1 credit) on an instrument or in voice. Only Performance majors may take Applied Music for 4 credits. Fall, Spring

MU 207 TEACHING MUSIC TO CHILDREN
Music teaching techniques needed by teachers in the early childhood and elementary classroom. Develops skills in singing, listening, creating, and playing classroom instruments. Not available for credit toward a Music major or minor, except in the BA Music with specialization of Music for the Elementary Teacher. Must be able to read simple treble clef music. Fall, Spring

MU 211 INTRO TO ELECTRONIC MUSIC
2 credits
An introduction to the techniques of electronic music through hands-on experience and historical survey. Includes studio/MIDI setup; synthesizer operation; sequencing; and audio file manipulation using the Macintosh operating system. Also includes listening to examples of electronic music. Prerequisites: computer literacy and MU 152, or permission of instructor. Fall, even years

MU 212 MUSIC IN AMERICA
American music from the time of the early settlement to the present. Includes popular, folk, and art music traditions and developments; musical theatre; and jazz. Prerequisite: ENG 101. Fall, even years

MU 213 COMPOSITION CLASS I
2 credits
Preliminary study of the process of musical composition in a classroom setting. Includes the effective use of counterpoint; listening to examples from the standard literature; composing works for solo instrument or chamber groups. Prerequisite: MU 152 or permission of instructor. Fall

MU 214 COMPOSITION CLASS II
2 credits
Continuation of MU 213. More advanced work with counterpoint techniques. Additional literature review. Composing for a wider variety of instruments or voice. Prerequisite: MU 213. Spring

MU 218 THE HISTORY OF JAZZ
Jazz from its origins through modern developments. Ethnic backgrounds, contributing factors, style characteristics, and interrelationships, literature, and performers. Fall, Spring

MU 220 TECHNOLOGY FOR MUSIC EDUCATORS
An introduction to music technology and its relationship to music education. Topics are based on the areas of competency in music technology for K-12 music teachers established by the Technology Institute for Music Educators. Prerequisites: Music Education major, sophomore standing. Fall, Spring

MU 222 MUSICAL IMPROVISATION
1 credit
Within the elements of rhythm, melody, harmony, timbre and form, this course will provide a foundation for developing extemporaneous musical skills useful in performance and teaching. Students are expected to have completed one year of music theory prior to taking this course. Fall, Spring

MU 223 STRING METHODS I
1 credit
Class instruction in string performance, pedagogy, methods, materials, and basic maintenance. Two instruments are studied. Prerequisite: MU 225 and major in Music. Meets first half of the semester only. Fall

MU 224 STRING METHODS II
1 credit
Continuation of MU 223. Additional stringed instruments are studied. Prerequisite: MU 223. Meets second half of the semester only. Spring

MU 225 BRASS METHODS I
1 credit
Class instruction in brass performance, pedagogy, methods, materials, and basic maintenance. Two brass instruments are studied. Prerequisite: Music major or permission of instructor. Meets first half of the semester only. Fall

MU 226 BRASS METHODS II
1 credit
Two additional brass instruments are studied. Prerequisites: MU 225 and major in Music. Meets second half of the semester only. Fall

MU 227 WOODWIND METHODS I
1 credit
Class instruction in woodwind performance, pedagogy, methods, materials, and basic maintenance. One woodwind instrument will be studied. Prerequisite: Music major or permission of instructor. Meets first half of the semester only. Spring

MU 228 WOODWIND METHODS II
1 credit
Continuation of MU 227. One additional woodwind instrument will be studied. Prerequisites: MU 227 and major in Music. Meets second half of the semester only. Spring
MU 229 PERCUSSION METHODS I
1 credit
Class instruction in percussion performance, pedagogy, methods, materials, and basic instrument maintenance. Prerequisite: Music major or permission of instructor. Meets first half of semester only. Fall

MU 230 PERCUSSION METHODS II
1 credit
Continuation of MU 229. Prerequisite: MU 229. Meets second half of semester only. Fall

MU 231 GUITAR METHODS
2 credits
Class instruction in basic guitar skills, emphasizing application in classroom teaching situations at the elementary and junior high levels, methods and materials, and basic instrument maintenance. Spring

MU 235 PERFORMANCE LITERATURE
2 credits
Sections offered in piano and guitar literature. Treats performance literature from all periods. Classes include performance of examples with coaching in stylistic interpretation. Piano: fall, even years. Guitar: spring, odd years

MU 237 VOCAL PEDAGOGY
Physiology of the vocal mechanism, methods and materials for teaching voice and Italian diction for singing using the International Phonetic Alphabet. Students are required to teach a beginning voice student in class with supervision by the instructor. Prerequisite: One year of applied vocal study or permission of instructor. Fall, odd years

MU 238 VOCAL DICTION AND LITERATURE
German, French, and English diction for singers using the International Phonetic Alphabet. It applies this knowledge to the study and performance of vocal literature from the various historical periods. Prerequisite: One year of applied vocal study, or permission of instructor. Fall, even years

MU 251 MUSIC THEORY III
2 credits
Part-writing using second inversion chords, deceptive cadence, analysis of Bach chorales and 18th to early 19th century piano music; secondary dominants and diatonic modulation. Principles of binary and ternary form. Prerequisite: MU 152 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 252 MUSIC THEORY IV
2 credits
Chromatic chords (Augmented Sixths, Neapolitan, secondary diminished sevenths). Chromatic modulation. Analysis of mid-to late nineteenth century music. An introduction to 9th, 11th, and 13th chords as used by Impressionist and Jazz composers. Prerequisite: MU 251 with grade of C or better, or permission of the instructor. Fall, Spring

MU 261 AURAL SKILLS III
1 credit (meets 2 hours weekly)
Aural dictation skills including dominant seventh chords, progressions including major, minor and diminished chords and inversions. Rhythmic dictation in compound meters. Sight-singing of more difficult tonal melodies, use of C clefs. Prerequisite: MU 162 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 262 AURAL SKILLS IV
1 credit (meets 2 hours weekly)
Aural dictation skills including chromatic chord progressions. Rhythmic dictation including dotted rhythms, triplets, and some syncopation. Sight-singing of chromatic and modulating melodies. Prerequisite: MU 261 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 270 OPERA WORKSHOP
1 credit
Opera excerpts are studied and performed. Complete operas are also studied – composers, plots, and characters.

MU 290 SPECIAL TOPICS IN MUSIC
1-3 credits
Study of selected topics in music. May be repeated as topics change. Prerequisite: permission of instructor.

MU 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

MU 301-302 APPLIED MUSIC
1, 2, or 4 credits each
Individual instruction consisting of twelve 50-minute (for 2 or 4 credits) or twelve 25-minute lessons (for 1 credit) on an instrument or in voice. Only Performance majors may take Applied Music for 4 credits. MU 302 may be repeated by Music Education majors. Fall, Spring

MU 310 WESTERN MUSIC BEFORE 1750
A survey of Western art music traditions during the Medieval, Renaissance, and Baroque periods. Emphasis on the development of musical style. Prerequisite: MU 152. Fall

MU 312 WESTERN MUSIC AFTER 1750
A chronological survey of music from the Baroque Period to the present day. Emphasis on the development of musical style. Prerequisite: MU 152. Spring

MU 315 CONDUCTING I
2 credits
Basic conducting techniques, experience in score reading, baton technique, and interpretation. Prerequisite: MU 152, or permission of instructor. Fall

MU 316 CONDUCTING II
2 credits
Sequel to MU 315. More advanced conducting techniques used in both instrumental and choral ensembles. Prerequisite: MU 315 with a grade of C or better. Spring
MU 326 APPLIED PEDAGOGY
2 credits
Directed study of materials and approaches to studio teaching of one’s primary applied instrument to students of all ages, beginning to advanced. Includes readings and observations of other teachers as assigned. May be repeated once for credit. Prerequisite: one year of applied music study on primary instrument and permission of instructor. Piano: fall, odd years. Guitar: spring, even years.

MU 357 GENERAL MUSIC K-12
4 credits
Planning, teaching, and assessing general music lessons (K-12) in accordance with the National Music Standards. Implementation of Orff and Kodaly pedagogies including keyboard skills, singing, playing classroom instruments, solfege, and Curwin hand signs. Classroom observations and field teaching required. Prerequisite: Completion of piano skills test.

MU 358 CHORAL MUSIC EDUCATION
2 credits
Principles, techniques, and materials for developing and administering a complete school choral program. Literature for large and small vocal ensembles surveyed. Observations and field teaching experience in choral setting required. Prerequisites: Admission to Teacher Education and MU 355, or permission of instructor. Spring.

MU 360 INSTRUMENTAL MUSIC EDUCATION
2 credits
Principles, techniques, organization, and materials for developing and administering a complete school instrumental program. Includes sources and criteria for selection of repertoire. Observations of school music programs are stressed. Prerequisites: Admission to Teacher Education and MU 225 and 227 or equivalent, or permission of instructor. Spring.

MU 401 APPLIED MUSIC
1, 2, or 4 credits
Individual instruction consisting of twelve 50-minute lessons (for 2 or 4 credits) or twelve 25-minute lessons (for 1 credit) on an instrument or in voice. Successful completion of recital requirements is necessary for passing grade in this course. Only Performance majors may take Applied Music for 4 credits. Fall, Spring.

MU 404 ANALYTICAL TECHNIQUES IN MUSIC
2 credits
Formal analysis of representative examples of music literature. Emphasis is on the larger structural units of tonal composition. Prerequisite: MU 252. Spring, odd years.

MU 405 COUNTERPOINT
2 credits
Contrapuntal techniques in music of the 16th and 18th centuries; survey of “species” counterpoint and the basics of canon, fugue, and invertible counterpoint. Prerequisite: MU 252. Fall, odd years.

MU 411 ELECTRONIC MUSIC PROJECTS
1 credit
In this elective course, students will produce a music project that brings together their knowledge of an area in music with their acquired skills in electronic music. May be repeated for credit. Prerequisite: MU 211 or permission of instructor. Fall, Spring.

MU 414 APPLIED MUSIC
4 credits
Individual instruction consisting of a one-hour private lesson per week on an instrument or voice. Successful completion of recital requirements is necessary for passing grade in this course. Open only to Performance majors. Fall, Spring.

MU 419 PRACTICUM IN ENSEMBLE DIRECTING
1-3 credits
Allows upper-division Music majors to participate as apprentices in performing groups. Students may be asked to assist in selection of literature, group logistics, rehearsal, and performance. Prerequisites: MU 315-316, an audition, and permission of instructor. Fall, Spring.

MU 486 20TH CENTURY MUSIC
Analytical study of representative works from late-19th-century Impressionism and post-Romanticism to today’s music. Students apply theoretical and style-analytical knowledge to a small body of works and present a paper on a specific work of their choice, based on approaches learned in class. Prerequisite: permission of instructor. Fall, odd years.

MU 497 INTERNSHIP IN MUSIC TECHNOLOGY
1-4 credits
Supervised, contracted internship arranged by the student with an approved recording studio, or, in certain cases, with another compatible facility, for either a semester’s work or summer employment. Contract must be approved by the music technology coordinator. Responsible faculty supervision and review required. Prerequisites: MU 211, MU 213, MU 214, and MU 411. Fall, Spring.

MU 498 INDEPENDENT STUDY
1-6 credits
Independent reading and study in a selected area of Music, conducted on a tutorial basis. Students must obtain approval of the supervising faculty member before registering. May be repeated for a total of 6 credits.

Philosophy

PHIL 100 LOGICAL ARGUMENTATION
The art of correct reasoning, advanced by studying forms of argument. Emphasizes deductive arguments, both categorical and sentential, and informal fallacies. Fall, Spring.

PHIL 200 PHILOSOPHY AND CRITICAL ANALYSIS
Critical readings in works of the Greek, Medieval, and Modern periods of Western philosophy. Skills of analyzing, evaluating,
and paraphrasing are nurtured and applied to philosophical arguments, classifications, definitions, explanations, and refutations. Fall, Spring

PHIL 211 SENSE AND NONSENSE
Inductive reasoning approached through the study of modern pseudoscientific writings on topics such as extraterrestrial visitors, the Bermuda Triangle, astrology, and psi. Emphasizes criteria for acceptable hypotheses, controls for observation and experiment, and guards against neglect of evidence. Alternate semesters

PHIL 220 ETHICS
From a preliminary analysis of the nature and function of ethics, the course proceeds to examine contemporary ethical problems, such as abortion, sexual morality, and criminal punishment. Also examines some theoretical issues, such as egoism, relativism, and moral freedom. Spring

PHIL 231 COMPARATIVE RELIGION I
A philosophical introduction to many of the world's religions including Hinduism, Jainism, Judaism, Islam, and Confucianism. Investigates the differing aspects of human religious experience and examines the similarities and differences both between religions and among the denominations within them. Fall, alternate years

PHIL 232 COMPARATIVE RELIGION II
A philosophical introduction to many of the world's religions including Sikhism, Buddhism, Christianity, Taoism, and Shintoism. Investigates the differing aspects of human religious experience and examines the similarities and differences both between religions and among the denominations within them. Spring, alternate years

PHIL 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

PHIL 300 ANCIENT PHILOSOPHY
An examination of Western philosophy among the Greeks and Romans, from Thales through Plotinus. Reading and discussion of primary sources. Prerequisite: one course in Philosophy or permission of instructor. Alternate years

PHIL 301 MEDIEVAL AND RENAISSANCE PHILOSOPHY
An examination of Western philosophy from Augustine through Francis Bacon. Reading and discussion of primary sources, accompanied by written exercises. Prerequisite: one course in Philosophy, or permission of instructor. Alternate years

PHIL 302 MODERN PHILOSOPHY
An examination of Western philosophy from the 17th to early 19th century. Major attention is paid to the continental rationalists, the British empiricists, and Kant. Prerequisite: one course in Philosophy or permission of instructor. Alternate years

PHIL 304 AMERICAN PHILOSOPHY
A critical study of American Pragmatism, its critique of earlier Modern philosophy, and its appropriation of evolutionary theory. Prerequisite: one course in Philosophy or permission of instructor. Alternate years

PHIL 306 EXISTENTIALISM
Reading and discussion of some philosophic writings of Nietzsche and other thinkers, such as Kierkegaard, Heidegger, Jaspers, Camus, and Sartre. Attempts to isolate and evaluate typical existentialist themes and to contrast them with non-existentialist themes. Prerequisite: one course in Philosophy or permission of instructor. Fall, alternate years

PHIL 308 CONTEMPORARY PHILOSOPHY
An examination of 20th-century Anglo-American and continental thought, including analytic philosophy, phenomenology, logical positivism, hermeneutics, ordinary language philosophy, existentialism, structuralism, and deconstruction. Attention is given to influential theorists such as Russell, Husserl, Wittgenstein, Heidegger, Quine, Sartre, and Derrida. Prerequisite: one course in Philosophy or permission of instructor. Occasionally

PHIL 313 PHILOSOPHY AND THE HOLOCAUST
This course examines ethical, philosophical, and theological issues relating to the experience of the Holocaust and the broader human concerns of evil and suffering. Topics include the uniqueness and universality of the Holocaust as well as questions of justice. Prerequisite: one course in Philosophy and either HIST 252 or HIST 253, or permission of instructor. Once every three years

PHIL 322 MEDIA ETHICS
Teaching and practice in ethics with use of case studies. Students are taught that information in journalism is a social good, not merely a commodity, and that the journalist shares responsibility for what is transmitted to the public. Prerequisites: JRN 200 or PHIL 220, or permission of instructor. Cross-listed as JRN 322. Spring

PHIL 330 AESTHETICS
A philosophic introduction to a variety of influential theories of art in areas as diverse as literature, dance, and film. Examination of the role of the creative process in human experience as perceived by philosophers from Plato to Derrida. Prerequisite: one course in Philosophy, or FILM 270, or permission of instructor. Fall

PHIL 358 HISTORY AND PHILOSOPHY OF SCIENCE: 1700 TO PRESENT
Examines the development of scientific thought and philosophy of science from the Scientific Revolution to the present. Prerequisites: 6 credits of science course work or permission of instructor. Cross-listed as HIST 358.

PHIL 360 PHILOSOPHY OF LAW
Examines questions in the area of the philosophy of law including discussions of the appropriate roles of liberty, justice, and responsibility in a society that reconciles a respect for the individual with the need for legitimate governmental author-
ity. Prerequisite: one course in Philosophy or permission of instructor. *Spring, alternate years*

**PHIL 390 PHILOSOPHICAL MASTERS: [PHILOSOPHER]**
Concentrated study of works of a single philosopher. Primary readings are complemented by secondary readings that sample a range of interpretations and by examination of some historical influences both within and without philosophy. Repeatable for credit as topics change. Prerequisite: one course in Philosophy or permission of instructor. *Occasionally*

**PHIL 393 TOPICS IN HISTORY OF IDEAS**
Examines a selected topic in intellectual history, cultural history, or history of philosophy. Readings are drawn from primary sources. May be repeated as topics change. Prerequisite: one course in History or permission of instructor. Cross-listed as HIST 393.

**PHIL 406 EXISTENTIALISM AND FILM**
The success of many films derives not only from their entertaining qualities but also from existential themes. Philosophical perspectives are applied to the films of directors such as Woody Allen and Alfred Hitchcock. Prerequisite: PHIL 306. *Spring, alternate years*

**PHIL 490 ADVANCED SPECIAL TOPICS**
Examines a selected topic, or the works of one or two major thinkers at an advanced level. May be repeated as topics change. Prerequisite: one course in Philosophy or permission of instructor. *Occasionally*

**PHIL 498 INDEPENDENT STUDY**
1-6 credits
Independent reading and study in a selected area of philosophy, conducted on a tutorial basis. Students must obtain approval of the supervising faculty member before registering. May be repeated for a total of 6 credits. *Occasionally*

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**Physical Education**

**PE 100 FOUNDATIONS OF PHYSICAL EDUCATION**
Reviews the basic foundations of human muscular movement, including the historical, philosophical, kinesiological, physiological, sociological, and psychological components of the discipline. Also clarifies occupational options and requirements. This course is designed for students who intend to major in Physical Education. *Fall*

**PE 140 INTRODUCTION TO ATHLETIC TRAINING**
2 credits
Designed to provide a supervised opportunity for the student to gain practical experience in athletic training, to introduce selected administrative tasks, and to develop basic clinical skills and knowledge needed to work in an athletic training environment. Must be taken concurrently with application to the Athletic Training program. *Fall, Spring*

**PE 150–199 SPORT AND LEISURE ACTIVITIES**
1 credit each (2 credits as noted)
Each course provides an opportunity for students to acquire basic knowledge, skills, and techniques in a sport or leisure activity. Designed for non-PE majors. Graded Pass/Fail.

**PE 150-155 AQUATICS**
150 Beginning Swimming. *Fall*
152 Aquatics Conditioning. *Fall*
154 Lifeguard Training. Note: Candidates must pass a swimming competency test given on the first day of class. *2 credits Fall, Spring*
155 Water Safety Instructor. Note: Candidates must pass a written water safety exam and a swimming competency test on the first day of class. *2 credits Spring*

**PE 160-162 PHYSICAL CONDITIONING**
160 Cardiovascular Fitness, *Fall, Spring*
161 Strength Training. *Fall, Spring*
162 Tension Control. *Fall, Spring*

**PE 176-184 INDIVIDUAL/DUAL SPORTS**
176 Badminton, *Spring*
177 Golf. *Fall*
181 Tennis. *Fall*

**PE 185-186 TEAM SPORTS**
185 Volleyball. *Fall, 1st quarter*
186 Basketball. *Spring, 4th quarter*

**PE 191 ARC STANDARD FIRST AID/CPR**
1 credit
First aid and adult CPR procedures with emphasis on practices endorsed by the American Red Cross for standard first aid certification. *Fall, Spring*

**PE 200 APPLIED KINESIOLOGY**
Study of the skeletal and muscular systems as applied to physical education activities. Mechanical analysis of basic motor patterns and sport skills. Prerequisites: BIO 230, BIO 231, BIO 232, and BIO 233 or permission of instructor. *Fall, Spring*

**PE 201 PHYSIOLOGY OF EXERCISE**
A study of the nervous, circulatory, and respiratory systems, with reference to immediate and long-range effects of activity and exercise on the human body. Prerequisites: BIO230,BIO231, BIO 232, and BIO 233 or permission of instructor. *Fall, Spring*

**PE 210 INTRODUCTION TO COACHING**
Course is designed as an introduction to coaching. Topics covered include developing a personal coaching philosophy, planning for coaching, conditioning for sport participation, effective teaching of sport skills, sport psychology, legal responsibilities, and nutrition for competition. *Spring*

**PE 240 ADVANCED FIRST AID**
Emergency response and CPR for the professional rescuer as established by the American Red Cross. Emphasis is on the skills and knowledge necessary for the planning and supervision of sports programs. Prerequisite: PE major or permission of instructor. *Fall, Spring*
PE 241–289 MAJOR SKILLS AND TECHNIQUES
1 credit each (2 credits as noted)

PE 241 MECHANICS OF TAPING TECHNIQUES
1 credit
Taping and wrapping for the prevention and protection of sports injuries. Bio-mechanical concepts of application techniques for modern adhesive tapes and orthopedic braces. Prerequisite: PE major with Athletic Training Option or permission of instructor. Spring

PE 242 MANAGEMENT OF CARDIAC AND RESPIRATORY EMERGENCIES
1 credit
Provides recertification for ARC CRP for the Professional Rescuer; develops skills and knowledge in respiratory and circulatory emergency management for heart attack, stroke, chest trauma and shock; develop skills for AED and oxygen administration; provides blood pathogen training. May be repeated for a maximum of three credits. Prerequisite: PE 240, or permission of instructor. Fall, Spring

PE 243 RESISTANCE TRAINING PROGRAMS
1 credit
Basic concepts of physical conditioning to prevent sports injuries. Muscle physiology, strength training, seasonal modifications, effects of overtraining, and use of isotonic and isokinetic equipment. Prerequisite: PE major or permission of instructor. Fall

PE 246 CLINICAL PALPATION
1 credit
Theory and techniques of palpation for athletic trainers, including the identification of surface anatomy and the clinical application to the evaluation of sports injuries. Prerequisite: PE major with Athletic Training Option, or permission of instructor. Fall

PE 255 DEVELOPMENTAL MOVEMENT
2 credits
Develops skill and knowledge to perform and teach fundamental motor skills. Teaching emphasis on skill practice, feedback, skill application, and incorporating cognitive objectives. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. Fall

PE 256 RHYTHMS
2 credits
Develops skill and knowledge to perform and teach selected rhythmic activities. Teaching emphasis on cueing. Prerequisites: PE 360 and PE major/Teacher Certification option, or permission of instructor. Spring

PE 260 TOTAL FITNESS
2 credits
Develops skills and basic knowledge related to principles of physical fitness. Students will have opportunities to participate in various fitness activities. Teaching emphasis on leading warm-up. Prerequisite: PE major or permission of instructor. Fall, Spring

PE 261 FITNESS CURRICULUM FOR K-12 LEARNERS
1 credit
Provides students with opportunities to plan health-related physical fitness curriculum for K-12 learners. Teaching emphasis will be on designing learning experiences and activity demonstration/explanation with feedback. Prerequisites: PE 260, PE 360, and PE major/Teacher Certification option, or permission of instructor. Fall

PE 265 SECONDARY ACTIVITIES
1 credit
Develops skill and knowledge to perform and teach selected secondary activities. Teaching emphasis on game supervision, including teachable moments, cueing, and incorporating affective (psycho-social) objectives. Prerequisites: PE 360 and PE major/Teacher Certification option, or permission of instructor. Fall

PE 268 OUTDOOR SKILLS
1 credit
Provides students with basic knowledge and introductory experiences in outdoor leisure activities that would be appropriate to be taught in a physical education setting. Emphasis is on learning to provide safe outdoor experiences for physical education students. Prerequisites: PE 360 and PE major/Teacher Certification option, or permission of instructor. Spring

PE 278 RACQUET SPORTS
2 credits
Develops skill and knowledge to perform and teach selected racquet sports. Teaching emphasis on skill practice and group feedback. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. Spring

PE 282 TRACK AND FIELD
1 credit
Develops skill and knowledge to perform and teach track and field. Teaching emphasis on leading warm-up and skill review and practice with feedback. Prerequisites: PE 360 and PE major/Teacher Certification option, or permission of instructor. Fall

PE 283 GYMNASTICS
2 credits
Develops skill and knowledge to perform and teach gymnastics. Teaching emphasis on leading warm-up, skill review and practice with feedback, and incorporating cognitive and affective goals. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. Spring

PE 285 VOLLEYBALL
1 credit
Develops skill and knowledge to perform and teach volleyball. Teaching emphasis on skill review and individual and group feedback. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. Spring
**PE 286 BASKETBALL**  
1 credit  
Develops skill and knowledge to perform and teach basketball. Teaching emphasis on skill practice, individual feedback, and officiating. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. **Fall**

**PE 287 SOFTBALL**  
1 credit  
Develops skill and knowledge to perform and teach softball. Teaching emphasis on skill review and practice with feedback. Prerequisite: PE 360 and PE major/Teacher Certification option, or permission of instructor. **Spring**

**PE 288 SOCCER/SPEEDBALL**  
1 credit  
Develops skill and knowledge to perform and teach soccer and speedball. Teaching emphasis on skill demonstration and explanation. Prerequisite: PE major with Teacher Certification Option, or permission of instructor. **Fall**

**PE 290 SPECIAL TOPICS**  
Study of a selected topic in physical education. May be repeated as topics change. Prerequisite: PE major, or permission of instructor. **Fall, Spring**

**PE 298 INDEPENDENT STUDY**  
1-6 credits  
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits. **Fall, Spring**

**PE 340 ATHLETIC TRAINING I**  
An introduction to the primary mechanisms of sports injuries, the techniques of injury prevention, and the role of the Athletic Trainer in the care and prevention of injuries in sports programs. Prerequisites: PE 240 and PE major, or permission of instructor. **Fall**

**PE 341 TECHNIQUES OF MANUAL TESTING**  
Theory and techniques of manual testing, including goniometric range of motion and muscle function testing. Clinical applications for the use of manual testing as an adjunct for the prevention, treatment, and rehabilitation of sports injuries. Prerequisites: PE 340 and PE Major/Athletic Training option, or permission of instructor. **Spring**

**PE 342 THERAPEUTIC MODALITIES**  
Provides knowledge and skills in the application of therapeutic modalities used in the treatment of sports injuries including indications and contraindications. Examines the role of pharmacological agents prescribed for the treatment of sports injuries. Prerequisites: PE 240, 340 and PE major with Athletic Training Option, or permission of instructor. **Spring**

**PE 343 CLINICAL EXERCISE THERAPY**  
Design and modification of rehabilitation protocols based on evaluation of structural and functional pathology, postural anomalies, and gait modification. Principles of conditioning program design as it relates to the prevention of sports injuries. Prerequisites: PE 200, 201, 243, and PE Major with Athletic Training Option, or permission of instructor. **Fall**

**PE 344 SPORTS NUTRITION**  
An introduction to Sports Nutrition including the digestion, absorption, and assimilation of food nutrients; bioenergetics in training; optimal nutrition for sports and exercise; thermoregulation and fluid balance; body composition, weight control, and disordered eating. Prerequisites: CHEM 100 or CHEM 103/107, PE 201, and PE major or permission of instructor. **Spring**

**PE 360 TEACHING PHYSICAL EDUCATION**  
Developmental characteristics and needs in relation to physical education and curriculum planning. Effective teaching skills including lesson/unit planning, execution, classroom management, interpersonal relationships, and professional role development. Prerequisites: ESEC 100, 150, 250 and PE major with Teacher Certification Option, or permission of instructor. **Fall**

**PE 361 ADAPTED PHYSICAL EDUCATION**  
Treats legal issues and the concept of inclusion as they apply to the physical educator. Motor and perceptual motor development, screening, and programming. Adaptation of physical education activities to meet special needs of students. Prerequisites: PE 360 and PE major with Teacher Certification Option, or permission of instructor. **Fall**

**PE 362 ADMINISTRATION OF PHYSICAL EDUCATION PROGRAMS**  
The nature, philosophy, and process of administration, program and facility planning, staff relationships and responsibilities, scheduling of classes and intramurals, budgeting and purchasing of materials, public relations, and evaluations. Prerequisites: PE 360 and PE major/Teacher Certification option, or permission of instructor. **Spring**

**PE 371 PRACTICUM: COACHING**  
1-6 credits  
Provides an experience in coaching within a public school or recreational sport program designed to give the student an opportunity to plan, implement and evaluate selected activities such as practice sessions, conditioning programs, and game strategies. Maximum of 6 credits. Prerequisites: PE 210 and permission of instructor. **Fall, Spring**

**PE 373 PRACTICUM: ATHLETIC TRAINING**  
1-6 credits  
Provides a supervised opportunity for the student to gain practical experience in the Athletic Training Program. Designed to introduce selected administrative tasks and to develop basic clinical skills associated with the treatment and rehabilitation of sports injuries. Prerequisite: PE major with Athletic Training Option, or permission of instructor. **Fall, Spring**

**PE 375 PRACTICUM: TEACHING ELEMENTARY**  
1-6 credits  
Provides an opportunity for students to plan, teach, and evaluate Physical Education lessons and units at the elementary level.
PE 376 PRACTICUM: TEACHING SECONDARY
1-6 credits
Provides an opportunity for students to plan, implement, and evaluate secondary level Physical Education programs, gain knowledge of the school environment, and develop an understanding of the social and psychological dynamics experienced by novice teachers. Maximum of 6 credits. Prerequisites: PE 340, PE 240, and PE Major with Athletic Training Option, or permission of instructor. Cannot be taken concurrently with PE 375. Fall, Spring

PE 383 INTERNSHIP: ATHLETIC TRAINING
1-6 credits
A supervised experience designed to develop decision-making skills in the application of athletic training principles and techniques. Maximum of 6 credits. Prerequisites: PE 140, PE 340, PE 240, and PE Major with Athletic Training Option, or permission of instructor. Cannot be taken concurrently with participation in a varsity or club sport. Fall, Spring

PE 400 BIOMECHANICS
Review of basic mechanical principles related to human movement. Application of these principles to everyday skills and to Physical Education activities. Prerequisite: PE 200, 201, or permission of instructor. Fall

PE 440 ATHLETIC TRAINING II
Analysis of the inflammatory process and implications for treatment of sports injuries and the identification of signs, symptoms and pathology of common sports injuries. The evaluation process, including history, observation, palpation, range of motion, joint stability, muscle function and special tests. Prerequisites: PE 340, 341, 342, 383 and PE Major/Athletic Training option, or permission of instructor. Fall

PE 441 ATHLETIC TRAINING III
Introduction to the neurological system and neurological assessment as basis for injury evaluation and treatment protocols. Develops skills and knowledge in manual therapy techniques such as proprioceptive neuromuscular facilitation, joint mobilization, and myofascial release. Examines pathology of disease process. Prerequisites: PE 340, 383, 440 and PE Major with Athletic Training Option or permission of instructor. Spring

PE 443 ADMINISTRATION OF ATHLETIC TRAINING
Introduction to the managerial tasks and administrative issues essential to athletic training including successful management skills, staffing, financial resource management, information management, athletic injury insurance and legal considerations. Information on current sports medicine policies for national athletic governing organizations. Prerequisites: PE 340, PE 383, PE 440, and PE major with Athletic Training Option or permission of instructor. Spring

PE 460 MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION
Introduction to the testing and evaluation needs of physical educators. Emphasizes practical methods and techniques for measurement and theories, statistics, and procedures for testing and evaluating. Prerequisite: PE major or permission of instructor. Fall, Spring

PE 473 ADVANCED PRACTICUM: ATHLETIC TRAINING
1-6 credits
A supervised opportunity designed to provide the advanced student with an intensive experience in rehabilitation of sports injuries to refine decision-making skills in the application of theory to practical situations. Maximum of 6 credits. Prerequisites: PE 342, 343, 441, and PE Major/Athletic Training option, or permission of instructor. Cannot be taken concurrently with participation in a varsity or club sport. Fall, Spring

PE 483 ADVANCED INTERNSHIP: ATHLETIC TRAINING
1-6 credits
A supervised opportunity designed to provide the advanced student with an intensive experience in athletic training to develop analytical decision making and refine clinical skills in the application of theory to practical situations. Maximum of 6 credits. Prerequisites: PE 140, PE 340, PE 342, PE 383, and PE major with Athletic Training Option, or permission of instructor. Cannot be taken concurrently with participation in a varsity or club sport. Fall, Spring

PE 490 ADVANCED SPECIAL TOPICS
1-6 credits
Study of a selected topic in Physical Education at an advanced level. May be repeated as topics change. Prerequisite: PE major or permission of instructor. Fall, Spring

PE 493 EXTERNSHIP: ATHLETIC TRAINING
1-6 credits
A supervised opportunity designed to provide the advanced student with an applicable exposure to career opportunities in an off-campus athletic training and/or clinical environment. Maximum of 6 credits. Prerequisite: Permission of Athletic Training Program director. Cannot be taken concurrently with participation in varsity or club sport. Fall, Spring

PE 495 SEMINAR
Small group discussion of problems and issues in Physical Education. May be repeated as seminar topics change. Prerequisite: PE major or permission of instructor. Spring

PE 498 INDEPENDENT STUDY
1-6 credits
Advanced independent study. The student completes a written research project under supervision of a PE faculty member who, in consultation with the dean of Professional and Graduate Studies, determines the credit value. Repeatable to a maximum of 6 credits. Prerequisites: PE major and permission of instructor. Fall, Spring
Physics

PHYS 100  PHYSICS FOR ALL SEASONS
A conceptual introduction employing demonstrations and ability to relate to everyday phenomena associated with mechanics, energy, sound, light, heat, electricity, modern physics. Emphasizes physical phenomena encountered in real-life settings, such as physics of sports, bicycles, rainbows, etc. Topics arranged by seasons of the year. Not for credit toward a science major. Fall

PHYS 105  PHYSICS OF MUSIC
Physical mechanisms for the production of sound in musical instruments; properties of sound waves and the acoustical environment; loudness, pitch, quality, scales, and harmony; sound perception, reproduction, and synthesis. A quantitative approach. 3 hours, including lab. Occasionally

PHYS 141  COLLEGE PHYSICS I
4 credits
Algebra-based introduction to Newtonian mechanics. Emphasis on conceptual understanding and problem solving. Forces, motion, dynamics (linear, 2-D, and rotational), momentum, energy, and conservation laws; fluids. Vector notation requires working knowledge of trigonometry. Math competency assessment administered. Prerequisite: One from Math 120, Math 130, Math 151, Math 152, or demonstrable skills and assessment administered. Prerequisite: One from Math 120, Math 251, or the equivalent.

PHYS 142  COLLEGE PHYSICS II
4 credits
Continuation of PHYS 141 with extension of basic concepts to include applications in electricity and magnetism. Other topics include vibrations and waves, light and sound. Introduction to heat, heat flow, thermodynamics, classical and physical optics, some atomic or nuclear physics. Prerequisite: PHYS 141. Corequisite: Must take lab, which is an integral part of the course. Spring

PHYS 201  PHENOMENAL SCIENCE
A hands-on, minds-on exploration, in a lecture-lab format, of the basic physical principles that underlie our observations and experiences in the everyday world. Familiar topics such as motion, forces, energy, fluids, sound, heat, light, electricity, and magnetism are treated. Prerequisite: MATH 120, MATH 130, or MATH 151 or the equivalent. Spring

PHYS 210  HISTORY OF SCIENCE
Tracing the history and philosophy of science from its origins in Ancient Greece through the scientific revolution of the 17th century to modern times. The fields of astronomy, chemistry, geology, and physics are covered. As needed

PHYS 241  UNIVERSITY PHYSICS I
4 credits
First of a three-semester sequence designed for Math/Physics, Chemistry/Physics, Physics minor, other physical science, and Math majors. Emphasizes classical mechanics and problem solving, kinematics, dynamics, conservation of energy, and momentum and oscillations. 3-hour lecture, 2-hour lab. Prerequisite: MATH 151; corequisite: MATH 152. Spring

PHYS 242  UNIVERSITY PHYSICS II
4 credits
Continuation of PHYS 241. Emphasis on waves, thermodynamics, electrostatics, and electric and electronic circuits. 3-hour lecture, 2-hour lab. Prerequisite: PHYS 241 or equivalent; corequisite: MATH 251. Fall

PHYS 245  UNIVERSITY PHYSICS III
4 credits
Continuation of PHYS 242. Emphasis on magnetism, electromagnetism, electromagnetic waves, geometrical and wave optics, solid state and quantum physics. 3-hour lecture, 2-hour lab. Prerequisite: PHYS 242 or equivalent. Spring

PHYS 260  ELECTRONICS
4 credits
Instrumentation, DC and AC circuitry, signals and noise, electronic models, filters, amplifiers, transducers, and solid-state components. Digital concepts and applications, including coding, gating and counting, and logic circuitry. 3-hour lecture, 2-hour lab. Prerequisite: PHYS 142 or 242 (may be taken concurrently.) Alternate years

PHYS 298  INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

PHYS 330  THERMODYNAMICS
The 1st and 2nd laws of thermodynamics, entropy, Maxwell-Boltmann statistics. Prerequisites: MATH 251 and PHYS 245. Alternate years

PHYS 342  MODERN PHYSICS
Selected topics from atomic physics, quantum mechanics, nuclear physics, and molecular and solid state physics. Includes a brief review of the theory of relativity. Prerequisites: PHYS 245 and MATH 361. Alternate years

PHYS 345  ADVANCED LABORATORY I, II
2 credits each
Two semesters of lab experience beyond the introductory level with emphasis upon greater depth, sophistication, precision, creativity, use of analytical skills, and exposure to more technologically advanced apparatus than that previously encountered. Often involves computer data acquisition and
analysis. Each course meets 5 hours a week. Prerequisite: PHYS 245. As needed

**PHYS 440 ELECTRICITY AND MAGNETISM**
Vector analysis, Coulomb’s law, the electric field, Gauss’s law, the Poisson and Laplace equations, properties of dielectrics, electric current, Ampere’s law, electromagnetic induction, and Maxwell’s equations. Prerequisites: PHYS 245 and MATH 361. Alternate years

**PHYS 490 ADVANCED SPECIAL TOPICS**
1-4 credits
Study of selected topics not covered adequately in other Physics courses. Includes the study of experimental techniques and results, as well as various theoretical models. Prerequisites: PHYS 245 and permission of instructor. Fall, Spring

**PHYS 498 INDEPENDENT STUDY**
1-6 credits
Individualized, directed study in an area of Physics or to a depth not normally available within the curriculum. The student initiates a research project or takes part in ongoing research under supervision of a faculty investigator. May be repeated to a total of 6 credits. Prerequisite: permission of instructor. Fall, Spring

### Political Science

**POSC 201 INTRODUCTION TO POLITICAL SCIENCE**
Survey of political science and politics, fields, and methods. U.S. government, international affairs, comparative government, and contemporary domestic and international issues. **Fall, Spring**

**POSC 205 UNDERSTANDING POLITICAL SCIENCE THROUGH LITERATURE AND FILM**
Survey of the major questions and concepts in the study of politics. This multimedia approach focuses on political economy, ideology, revolution, and war. **Fall, Spring**

**POSC 211 U.S. POLITICS**
Surveys U.S. politics at the federal level. Examines democratic political theory, institutions, processes, and interests that shape public policy. Prerequisite: POSC 201 or POSC 205. **Spring**

**POSC 221 UNITED STATES: STATE AND LOCAL POLITICS**
The role of the states and their government subdivisions. Descriptive analysis of the institutions involved, local ideology, federalism, budgets, regional cooperation, and contemporary problems. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Fall, odd years**

**POSC 231 PUBLIC ADMINISTRATION**
Emphasizes local government planning and administration techniques, taught through simulations, and field study. Comparison of public and private administration. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Fall**

**POSC 271 INTERNATIONAL POLITICS**
Theory and practice of international politics. National security frameworks, the international political economy, and developing agendas. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Spring**

**POSC 290 SPECIAL TOPICS**
1–3 credits
Study of a selected topic in Political Science. May be repeated as topic changes. Prerequisite: POSC 201 or PSOC 205, or permission of instructor.

**POSC 294 COOPERATIVE EDUCATION**
1–6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail.

**POSC 298 INDEPENDENT STUDY**
1–6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

**POSC 301 WRITING AND RESEARCH**
Political writing including scholarly research papers, position papers, book reviews, and letters to the editor. Use of literary materials, government documents, computer databases, community resources, and interviews. Writing style and citations. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Fall, odd years**

**POSC 322 POLITICAL PARTICIPATION**
How and why citizens participate in politics, and the consequences for participants and their political systems. Requirements include participation-observation in the political arena. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Fall, even years**

**POSC 332 PUBLIC POLICY ANALYSIS**
Qualitative and comparative analysis of policy in such areas as rights, welfare, health, education, environment, and criminal justice. Study of the policy process, options, outcomes and evaluation methods. Prerequisite: POSC 201 or POSC 205, or permission of instructor. **Spring, odd years**

**POSC 341 CONSTITUTIONAL LAW**
The law of the Constitution as interpreted by the U.S. Supreme Court, nature and origins of judicial review, recent cases in political and civil rights, economic regulation, and distribution and scope of governmental powers. Prerequisite: POSC 201, POSC 205, HIST 161, or HIST 162. **Spring**

**POSC 343 METHODS OF MANAGING AND RESOLVING CONFLICT**
Analysis of social conflict and assessment of alternative processes for resolving disputes at various levels of conflict,
including the workplace and diplomacy. Prerequisite: POSC 201 or POSC 205, or permission of instructor. Fall, odd years

POSC 381 U.S. FOREIGN POLICY
Analysis of foreign policy formation in the United States as it interacts with the international system. Includes historical setting and contemporary policies and problems. Prerequisite: POSC 201 or POSC 205, or permission of instructor. Fall, even years

POSC 401 POLITICAL THEORY
The aims of the political life, justifications for obedience and/or revolution, and other perennial questions. Ideas of classical and modern political theorists. Prerequisites: 9 credits in Political Science, or permission of instructor. Spring, even years

POSC 405 POLITICAL IDEOLOGY
The development of political belief systems approached through a consideration of their various philosophical origins and the consequences of applying ideologies to different social systems. Prerequisites: 9 credits in Political Science, or permission of instructor. Fall, even years

POSC 451 POLITICS OF DEVELOPING AREAS
Economic and political manifestations of poverty, dependency, and development in the nonindustrialized world. Area foci may include Latin America, Africa, the Middle East, and Asia. Prerequisites: 9 credits in POSC, or permission of instructor. Spring, even years

POSC 461 COMPARATIVE POLITICS
The structures and political processes of western and non-western political systems. Consideration of party systems, political institutions, political socialization, political economy, political groups, and the role of the military. Prerequisites: 9 credits in Political Science, or permission of instructor. Spring, even years

POSC 496 PRACTICUM
3 or 6 credits
Application of a political science background to the practical affairs and activities of a political organization or institution as a participant observer. Prerequisites: at least 12 credits in Political Science major, 2.5 cumulative GPA in major, and permission of instructor.

POSC 497 INTERNSHIP
3 or 6 credits
Culminating experience using political science course work as background for participant observation in the practical affairs and activities of a political organization or institution. Prerequisite: 24 credits in major, 2.5 cumulative GPA in POSC courses, and permission of instructor.

POSC 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an issue, problem, or topic. May be repeated for a maximum of 6 credits. Prerequisite: permission of instructor.

Psychology

PSYC 101 GENERAL PSYCHOLOGY
Surveys the major topics involved in an understanding of the behavior of humans and animals. Fall, Spring

PSYC 221 SOCIAL PSYCHOLOGY
Human thought, feeling, and behavior in the social environment. Topics include the perception of people and social situations, aggression and altruism, competition and cooperation, love and friendship, communication and persuasion, attitudes and attitude change, social influence, and group dynamics. Prerequisite: PSYC 101 or permission of instructor. Fall, Spring

PSYC 242 PERSONALITY
An introduction to descriptive and inferential statistics used in psychological research. Topics include measures of central tendency, variability, and correlation, as well as probability, sampling, hypothesis testing, and analysis of variance. Prerequisite: PSYC 101. May not be taken for credit by students who have completed MATH 141. Fall, Spring

PSYC 252 RESEARCH METHODS IN PSYCHOLOGY
The theory of psychological experimentation. An examination of the various techniques and methodologies in psychological research. Must be taken concurrently with PSYC 254. Prerequisite: formal admission to the major in Psychology. Fall, Spring

PSYC 253 BRAIN AND BEHAVIOR
This course examines how the central and peripheral nervous systems as well as the endocrine system relate to human and animal behavior. Prerequisites: PSYC 101 or permission of instructor. One BIO course recommended. Fall, Spring

PSYC 254 RESEARCH METHODS LAB
1 credit
In-depth laboratory experience in psychological research. Students will learn various laboratory techniques, conduct experiments, analyze data, and write research reports on psychological research topics. Corequisite: PSYC 252.

PSYC 290 SPECIAL TOPICS
1–3 credits
Exploration and analysis of elementary topics in psychology. Prerequisite: permission of instructor.

PSYC 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.
PSYC 311  CHILD AND ADOLESCENT
PSYCHOLOGY
The study of child and adolescent Psychology focusing on current research in cognitive, physical, social, and emotional development. Prerequisite: PSYC 101 or ESEC 150. Fall, Spring

PSYC 314  ADULTHOOD AND AGING
A psychological analysis of human development from post-adolescence to death. Topics include femininity, masculinity, self-image, family and work relationships, independence, power, developmental experiences, cross-cultural comparisons, emotional and physical health, and aging. Prerequisites: PSYC 101 and junior standing, or permission of instructor.

PSYC 321  CROSS-CULTURAL PSYCHOLOGY
The study of issues at the intersection of culture and psychology. Topics may include the learning of culture, the impact of culture on behavior, conflict and cooperation across cultural boundaries, and social processes in multicultural communities. Prerequisite: PSYC 101. Fall

PSYC 332  ETHOLOGY
Investigates the behavior of animal species to provide a broader frame of reference for evaluating human behavior. Prerequisite: PSYC 101 or permission of instructor. Fall

PSYC 340  PSYCHOLOGICAL TESTING
Introductory theory and practice of psychological assessment. Examination of varied approaches to assessment and experiences with select test types. Prerequisites: PSYC 101 and junior standing, or permission of the instructor. Fall

PSYC 343  HUMANISTIC AND TRANSPERSONAL PSYCHOLOGY
Examination of the methodologies, theories, and research that emphasize holistic, conscious, and personalistic approaches to psychology. Topics include peak experiences and emotions, identity and self-expression, free will, ultimate values, altered states of awareness, and suprasensory phenomena. Prerequisite: PSYC 242.

PSYC 345  ABNORMAL PSYCHOLOGY
Introduction to major psychological disorders, etiology of mental illness, and issues in diagnosis and treatment. Prerequisites: PSYC 242 and junior standing, or permission of instructor. Fall, Spring

PSYC 355  PSYCHOLOGY OF LEARNING
Analysis of contemporary theories of learning. Emphasis on how each theory incorporates such concepts as reinforcement, extinction, motivation, emotion, practice, transfer, forgetting, and problem solving. Prerequisites: PSYC 101 and junior standing, or permission of instructor. Fall

PSYC 357  COGNITIVE PROCESSES
An investigation of the continuum of cognitive activities from perception to memory and thought processes. Traditional, neobehavioristic, information processing, and computer model approaches to understanding cognition are considered. Prerequisites: PSYC 101 and junior standing, or permission of instructor. Fall

PSYC 382  HISTORY AND SYSTEMS OF PSYCHOLOGY
Historical origins and logical analysis of recent systematic formulations in Psychology, with special attention to psychoanalysis, Gestalt psychology, and behaviorism. Prerequisites: PSYC 101 and junior standing, or permission of instructor. Fall, Spring

PSYC 412  YOUTH IN TRANSITION
Psychological examination of biological, social, and historical forces affecting late adolescence and early adulthood. Major focus is on the experience of traditional and nontraditional college students. Includes theory, research, and cases on such topics as identity and intimacy. Prerequisites: PSYC 101 and senior standing, or permission of instructor.

PSYC 425  PSYCHOLOGY OF WOMEN
Exploration of current and historical understandings of the psychology of women. Includes psychoanalytic, biological, and social explanations of women’s psychology and development and critical examination of research on gender differences. Prerequisite: PSYC 242 or WS 201.

PSYC 444  COUNSELING
Exposes students to major theories of counseling techniques and offers an opportunity for students to examine their interests and aptitudes as these relate to the counseling profession. Prerequisites: PSYC 343 or PSYC 345 and junior standing, or permission of instructor. Fall, Spring

PSYC 447  CLINICAL PSYCHOLOGY
Research and practice in clinical psychology, with consideration of problems inherent in assessment and therapy. Prerequisites: PSYC 343 or PSYC 345 and junior standing, or permission of instructor. Fall, Spring

PSYC 451  MOTIVATION
Examines factors that direct human behavior, with emphasis on the influence of physiological changes and learning on motivation. Prerequisites: PSYC 253 and senior standing, or permission of instructor.

PSYC 453  SENSATION AND PERCEPTION
Exposure to the sensory capacity of the human organism, perceptual theory, and selected areas of perceptual activity. Prerequisites: PSYC 253 and senior standing, or permission of instructor.

PSYC 470  PRACTICUM
1-6 credits
Field experience focused on application of psychological theory and data in an organization or service setting under faculty and agency supervision. The readings, work assignments, supervisory sessions, and written product are determined by the student, the faculty, and the agency prior to the practicum. Prerequisites: junior standing and permission of instructor. May be repeated to a total of 6 credits. Fall, Spring

PSYC 490  ADVANCED SPECIAL TOPICS
1-4 credits
Exploration and analysis of advanced topics in Psychology. Prerequisite: permission of instructor.
**PSYC 495 SEMINAR**
Considers major areas of psychology under direction of Psychology faculty. Subject matter contingent on student and faculty interest. Prerequisite: senior standing, or permission of instructor.

**PSYC 496 HONORS SEMINAR**
1 credit
Research seminar for participants in the Psychology Honors Program. Prerequisite: admission to Psychology Honors Program. Graded pass/fail. May be repeated up to a total of 2 credits. Fall, Spring

**PSYC 498 INDEPENDENT STUDY**
1-6 credits
Individual study or research in selected topics in Psychology under direction of a faculty member. Prerequisite: PSYC 101 or permission of instructor. May be repeated up to a total of 6 credits.

**PSYC 499 HONORS RESEARCH**
Independent topical research for participants in the Psychology Honors Program. Prerequisite: admission to Psychology Honors Program. Graded pass/fail. May be repeated up to a total of 6 credits. Fall, Spring

**PSYC 698 GRADUATE INDEPENDENT/DIRECTED STUDY**
1-4 credits
Individual study or research in selected topics in Psychology under direction of a faculty member. Prerequisite: senior standing and permission of instructor. May be repeated for a total of up to 8 credits.

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**Social Science**

**SOSC 100 FOUNDATIONS OF SOCIAL SCIENCE**
An interdisciplinary introduction to the world of the social sciences: the systematic study of human institutions and behaviors emphasizing theories, concepts, processes, and methods examined in a global context. The course focuses on the various perspectives of the social disciplines. Not available for General Education credit. Fall, Spring

**SOSC 495 SENIOR SEMINAR**
Capstone course with an interdisciplinary theme selected by the instructor that requires active analysis of causes, manifestations, and consequences of complex social phenomena. A major independent project is required. Prerequisite: senior social science major or permission of the instructor. Not available for General Education credit. Fall

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**Sociology**

**SOC 101 INTRODUCTORY SOCIOLOGY**
Introduces basic concepts, theories, and methods of sociology, which is the systematic study of society, culture, social institutions, organizations, and groups. Develops a sociological perspective on social issues, problems, and events. Provides an overview of major subfields in sociology. Fall, Spring

**SOC 203 SOCIOLOGY PROSEMINAR**
1 credit
This course enhances student preparation for the major and a career in sociology and related professions through examination of professional research and writing, discussion of career and workplace issues, and exploration of graduate opportunities and other professional development. Prerequisites: SOC 101 and Sociology major. Fall, Spring

**SOC 221 CRIMINAL JUSTICE**
An overview of the justice system as it currently operates in its three major components: police, courts, and corrections. A broad-based interdisciplinary perspective is taken to introduce the beginning student to the process of criminal justice in the United States. Fall, Spring

**SOC 225 SOCIAL PROBLEMS**
A study of selected social problems using a sociological lens. Problems may include alcoholism and drug addiction, crime, divorce, poverty, gender inequality, race relations, and others. Prerequisite: SOC 101 or permission of instructor.

**SOC 234 INTRODUCTION TO SOCIAL WORK**
An overview of the ethics, philosophy, and methods of the field of social work. Attention will be paid to social problems encountered in central social institutions and community resources available to address these social problems. Prerequisites: SOC 101 and SOC 225 or permission of instructor.

**SOC 260 POPULAR CULTURE**
This course focuses on dominant ideas/ideologies of inequality and how they are perpetuated (or not) in mass media and popular culture products such as TV shows, movies, songs, websites, games, and the like. Prerequisite: SOC 101.

**SOC 290 TOPICS IN SOCIOLOGY**
Selected topics in sociology. May be repeated as topics change. Maximum 6 credits. Prerequisite: SOC 101. Occasionally

**SOC 301 SOCIOLOGICAL RESEARCH METHODS**
4 credits
Methodologies and types of research commonly used in sociology. Focus on the research process, including the research problem and techniques of data gathering. Design and use of the interview, questionnaire, and case study approaches to sociological analysis. 3-hour lecture, 2-hour lab. Prerequisite: SOC 101. Fall, Spring

**SOC 303 SOCIOLOGICAL QUANTITATIVE ANALYSIS**
4 credits
Embeds statistical techniques in the sociological research process. Application of statistical techniques to test sociological hypotheses, assess social theories, and draw conclusions about sociological problems from statistical data. Review of descriptive/inferential statistics and instruction of statistical software. 3-hour lecture, 2-hour lab. Prerequisite: SOC 301. Fall, Spring
SOC 304 QUALITATIVE ANALYSIS
Innovative, interactive, hands-on approach to social research. Topics include: grounded theory, sampling, intensive interviews, participant observation, and focus groups. Attention to preparing data, developing concepts and coding, using computer-aided search tools, managing projects, assessing validity, and writing up results. Prerequisite: SOC 301. Spring, even years

SOC 305 SOCIOLOGICAL THEORY
The assumptions, orientations, and applications used by both classical and contemporary schools of sociological thought in explaining social phenomena. Prerequisite: SOC 203. Fall, Spring

SOC 321 WOMEN IN SOCIETY
A political and social/psychological approach to women in contemporary American society, with emphasis on the women’s movement, historical development of the position of women, their current roles in political and social institutions, and prospects for change. Compares the women’s movement with other civil rights movements. Prerequisite: SOC 101 or permission of instructor. Spring

SOC 325 ETHNIC RELATIONS
This course applies sociological theories of ethnicity to the study of past and current ethnic relations across the globe. Emphasizes sociological research on status of ethnic groups in the broader society and in specific social institutions. Prerequisite: SOC 101 or permission of instructor. Spring

SOC 326 SOCIOLOGY OF THE HOLOCAUST
Analyzes the Holocaust from a comparative, sociological perspective, applying relevant theories and concepts. Emphasis is on social and cultural forces that led to the Holocaust, including stereotyping, discrimination, anti-Semitism, institutional changes, and social/political indifference. Prerequisite: SOC 301 or HOLO 252 or HIST 252. Cross-listed as HOLO 326. Fall

SOC 327 SOCIOLOGY OF GENOCIDE
Focusing on genocide after the Holocaust, this course evaluates theoretical debates on what constitutes genocide and why genocide takes place. It also comparatively analyzes genocide that has occurred in different nation-states from a sociological perspective. Prerequisite: SOC 101. Spring, even years

SOC 335 PRACTICUM IN SOCIOLOGY
This course provides an opportunity for students to use sociological learning in a community setting for 8-10 hours each week. Students may select from among applied research, human services, or other social change settings. Prerequisites: SOC 301 and permission of instructor. Fall, Spring

SOC 340 CRIMINOLOGY
Analysis of criminal behavior from the functional and social problem points of view. Examination of theories and procedures in prevention and treatment, including history and theories of punishment. Prerequisite: SOC 221 or permission of instructor. Spring

SOC 345 SOCIOLOGY OF FAMILIES
This course examines various family forms, with primary emphasis on U.S. families. Includes the history and functions of families, theoretical and methodological approaches to studying families, intimate relationships, parenting, and socialization of children, and family disruption. Prerequisite: SOC 101 or permission of instructor. Spring

SOC 361 JUVENILE DELINQUENCY
A study of cultural influences defining the juvenile justice system. The structure of the juvenile court, choices for intervention, methods for measuring juvenile crime, and comparisons between juvenile and the adult justice systems are discussed. Prerequisite: SOC 221 or permission of instructor. Spring, odd years

SOC 370 URBAN SOCIETY
Analysis of urban structure and ecology. Emphasis is on personality and socialization patterns in large urban communities and consideration of the problems that stem from increasing urbanization in American society. Prerequisite: SOC 101 or permission of instructor. Spring

SOC 380 ENVIRONMENTAL SOCIOLOGY
Introduces students to the sociological analysis of human systems as they relate to the natural environment around the world. Topics include population, food energy, sustainable development, environmental justice, the environmental movement, international environmental conflicts, and globalization. Prerequisite: SOC 101. Fall, odd years

SOC 390 STUDIES IN SOCIOLOGY
Intensive study of selected topics in sociology. May be repeated as topics change to a maximum of 6 credits. Prerequisite: SOC 101. Occasionally

SOC 403 COMMUNITY RESEARCH
Seminar builds on and expands research and proposal-writing skills acquired in SOC 301 that are especially useful to community agencies. Students either conduct research or write a grant proposal for a local nonprofit or public agency. They present their work to community leaders in a written and oral presentation. Prerequisites: SOC 301 and 305 or permission of instructor. Spring

SOC 425 TOPICS IN ETHNIC RELATIONS
This seminar provides an in-depth analysis of one ethnic group in the United States. Ethnic groups analyzed on a rotating basis are African, Native, Latino, or Asian Americans. Emphasizes the culture and social status of the group. Also studies sociological issues confronting the group. Prerequisite: SOC 301 or permission of instructor. Recommended: SOC 325. Spring, odd years

SOC 450 MIND, SELF, AND SOCIETY
This seminar discusses major theories, problems, and findings concerning the relationship between the individual and society. Topics include consciousness and the construction of meaning, self-concept, and social identity; socialization and interaction; and group behavior and group membership. Prerequisite: SOC 305. Fall, even years

SOC 455 THE BODY AND SEXUALITY IN SOCIETY
Seminar introduces students to social benefits and practices related to the human body with a focus on gender and sexu-
ality. Topics include socialization, cultural constructions of masculinity and femininity, body image, aging bodies, sexual harassment, rape, pornography and sex work, and new reproductive technologies. Prerequisite: SOC 305 or permission of instructor. *Occasionally*

**SOC 460 SEMINAR IN POPULAR CULTURE**
Seminar with an in-depth investigation and analysis of one major form of popular culture (e.g., movies, sport, fiction), or the in-depth examination of a socialized identity (e.g., social class, race, gender) in several forms of popular culture. Prerequisite: SOC 305 or permission of instructor. *Spring*

**SOC 461 WHITE-COLLAR CRIME**
This seminar focuses on occupational, corporate, and government crime viewed using a sociological lens. This course will explore the causes, consequences, and criminal justice system response to white-collar crime. Prerequisites: SOC 305 and SOC 340, or permission of instructor. *Spring, even years*

**SOC 472 SOCIOLOGY OF HEALTH AND MEDICINE**
Seminar examining the contributions of sociological theory and research to understanding the social effects on health, illness, health care, the institution of medicine, and health policy. While the United States is a primary focus, global issues are included. Prerequisite: SOC 305. *Fall, odd years*

**SOC 475 SOCIAL STRATIFICATION**
This seminar examines how the unequal distribution of wealth, power, and prestige among individuals and groups affects life chances. Emphasizes class, race, gender, and occupational divisions in the contemporary United States with some attention to global inequality. Prerequisite: SOC 305. *Fall*

**SOC 477 SOCIOLOGY OF EDUCATION**
This seminar examines education from a sociological perspective. Evaluates research and theories of schooling, learning, and education, both formal and informal. Analyzes schools, colleges and universities as organizations. Compares practices and policies around the world. Prerequisite: SOC 305 or permission of instructor. *Occasionally*

**SOC 480 POLITICAL SOCIOLOGY**
Seminar acquaints students with sociological approaches to the study of politics in world context. Attention is given to aspects of political culture, political theory, the media, international politics, political participation, social movements, political economy, and globalization. Prerequisite: SOC 305 or permission of instructor. *Spring, even years*

**SOC 490 ADVANCED SPECIAL TOPICS IN SOCIOLOGY**
Advanced study of selected topics in sociology. May be repeated as topics change to a maximum of 6 credits. Prerequisite: SOC 101. *Occasionally*

**SOC 494 COOPERATIVE EDUCATION**
1-6 credits
Work-learning experience for Sociology Majors. Placement arranged by student, and approved, supervised, and evaluated by faculty member. Student spends 3-4 hours each week in work setting for each credit earned. Compensation possible. Does not count toward the major. May be repeated to a maximum of 6 credits. Graded Pass/Fail. Prerequisite: Permission of instructor. *Fall, Spring*

**SOC 498 INDEPENDENT STUDY**
1-6 credits
Advanced independent study of a sociology/anthropology area not normally available in the curriculum. Requires written report. Prerequisite: written permission of the instructor. May be repeated to a total of 6 credits. *Fall, Spring*

### Spanish

**SP 100 BASIC SPANISH LANGUAGE AND CULTURE**
4 credits
Introduction to basic Spanish, Spanish history, and Spanish contemporary culture. The course makes extensive use of multimedia resources to include: interactive language programs, video, and the Internet. *Fall, Spring or Summer*

**SP 101-102 ELEMENTARY SPANISH I AND II**
4 credits each
Development of the four basic language skills: listening, speaking, reading, and writing. *Fall, Spring*

**SP 190 ELEMENTARY SPECIAL TOPICS IN SPANISH**
Study of selected topics in Spanish. May be repeated as topics change. *Occasionally*

**SP 200 INTERMEDIATE READINGS IN SPANISH**
4 credits
Selected readings in Spanish from literary texts, scholarly journals, magazines, newspapers, and web sites. Class discussions are mainly in English. This course meets the A&H language requirement and does not count for the Spanish major. Prerequisite: SP 102 or equivalent. *Fall, Spring*

**SP 201-202 INTERMEDIATE SPANISH I & II**
4 credits each
Continuation of the development of the four basic language skills. *Fall, Spring*

**SP 290 INTERMEDIATE SPECIAL TOPICS**
Study of selected topics in Spanish. May be repeated as topics change. *Occasionally*

**SP 298 INDEPENDENT STUDY**
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.
SP 303 INTRODUCTION TO SPANISH LITERATURE
Study of various critical approaches to Spanish literature; conducted in Spanish. Prerequisite: SP 202 or permission of instructor. Fall

SP 315 CONVERSATION IN SPANISH
The vocabulary of spoken Spanish and guided practice to increase oral proficiency. Prerequisite: SP 202 or permission of instructor. Fall

SP 316 COMPOSITION IN SPANISH
Study and practice of Spanish writing styles for various purposes: journals, letters, essays, and creative pieces. Prerequisite: SP 315 or permission of instructor. Spring

SP 320 COMMERCIAL SPANISH
The terminology and forms used in the Hispanic world of business. Practice with commercial correspondence. Prerequisite: SP 202 or permission of instructor. Occasionally

SP 330 LATINOS IN THE U.S.
The cultural backgrounds and literary contributions of Chicanos, Puerto Ricans, and Cubans. Readings in Spanish and English; class discussion in Spanish. Prerequisite: SP 202 or permission of instructor. Fall

SP 350 STUDY IN SPAIN OR LATIN AMERICA
Maximum of 18 credits per semester
Study in a College-approved program. May be used to meet the Arts and Humanities language requirement. Students must meet with Modern Languages faculty for pre-approval of their program of study and for an exit interview upon their return. Fall, Spring

SP 405 CONTEMPORARY SPANISH USAGE
Advanced study of syntax, semantics, and lexicon based on actual usage in the contemporary Hispanic world. Prerequisite: SP 315 or equivalent. Occasionally

SP 410 ADVANCED SPANISH GRAMMAR
A study of contemporary Spanish grammar, and a treatment of the typical pitfalls for nonnative users of Spanish. Prerequisite: SP 405, or permission of instructor. Occasionally

SP 495 SEMINAR
The capstone experience for Spanish majors. Topics based on needs and interests of the group. Prerequisites: SP 405 and senior status. Spring

SP 498 INDEPENDENT STUDY
1-6 credits
Intensive study of some aspect of Spanish language, literature, or culture adapted to the student’s needs. May be repeated to a total of 6 credits. Prerequisite: permission of instructor.

SPED 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

SPED 301 CONTEXT FOR TEACHING STUDENTS WITH SPECIAL NEEDS
An examination of the special education process, characteristics of students with learning differences, and implications for assessment, instruction, and curriculum development. Prerequisites: Admission to Teacher Education; for students in programs other than teacher preparation, permission of instructor. Fall, Spring

SPED 401 INSTRUCTION AND CURRICULUM DESIGN IN SPECIAL EDUCATION
Focus on designing curriculum and selecting instructional strategies to address student learning profiles and transition needs. Adaptations to the regular education curriculum and alternative teaching approaches in K-12 settings are addressed. Prerequisite: SPED 301, or permission of instructor. Fall, Spring

SPED 420 ASSESSMENT IN SPECIAL EDUCATION
Procedures used to identify and assess student learning and behavior needs. Includes analyzing observational data as well as student performance on standardized, criterion-referenced, and curriculum-based assessments. Corequisite: SPED 430 or SPED 439. Prerequisite: SPED 401 or permission of instructor. Fall, Spring

SPED 430 METHODS AND PRACTICUM: ELEMENTARY
6 credits
Development of skills in observing, evaluating, planning, instructing, managing, and collaborating with parents and teachers in an elementary school setting. Corequisite: SPED 420. Prerequisites: SPED 301 and ESEC 387. Fall, Spring

SPED 439 METHODS AND PRACTICUM: SECONDARY
6 credits
Development of skills in observing, evaluating, planning, instructing, managing, and collaborating with parents and teachers in a middle and secondary school settings. Corequisite: SPED 420. Prerequisites: SPED 301 and ESEC 387. Fall, Spring

SPED 460 STUDENT TEACHING
12 credits
Full-time placement in educational setting(s) appropriate to intended certification. Supervision provided by college supervisor and field-based professional towards mastery of principles, attitudes, and techniques for successful teaching. Graded Pass/Fail. Prerequisite: permission of Teacher Education. Fall, Spring

Special Education

SPED 290 SPECIAL TOPICS
1-3 credits
Exploration and analysis of special topics in Special Education.
SPED 465 STUDENT TEACHING
6 credits
Full-time placement in educational setting(s) appropriate to intended certification. Supervision provided by college supervisor and field-based professional towards mastery of principles, attitudes, and techniques for successful teaching. Graded Pass/Fail. Prerequisite: permission of Teacher Education. Fall, Spring

SPED 490 ADVANCED SPECIAL TOPICS
1-3 credits
Exploration and analysis of special topics in Special Education. Fall, Spring, Summer

SPED 495 SEMINAR
1-3 credits
Group study of the problems in educating exceptional children and the techniques and procedures by which comprehensive educational care can be provided. Research related to the development of Special Education programs. Fall, Spring, Summer

SPED 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an educational problem encountered in a school or community. May be repeated to a total of 6 credits. Fall, Spring, Summer

SPED 520 ASSESSMENT AND EVALUATION FOR SPECIAL EDUCATORS
Focuses on the theory and practice of assessment for general special education educators at the post-baccalaureate level. Includes procedures to identify and assess student learning and behavior needs and outcomes. Informal and formal strategies including standardized tests, observational tools, and curriculum/criterion referenced tests. Corequisite: SPED 520. Prerequisites: SPED 301 and SPED 401, or permission of instructor. Fall

SPED 525 TRANSITION PLANNING AND PROGRAMMING
Examination of the transition from secondary school environments to after-school activities for youth with disabilities relative to career development and self-determination. Critical components include legal foundations, functional assessment, access to career and technical education, employment, postsecondary training, and independent living. Prerequisite: Admission to Teacher Education or permission of instructor. Spring

SPED 560 INTERNSHIP IN SPECIAL EDUCATION I
6 credits
This post-baccalaureate internship is the first half of a yearlong field experience and seminar that focuses on the application of special education knowledge and skills in a K-12 school setting. Interns receive support from a college supervisor and mentor/cooperating teacher to meet identified special education program competencies. Corequisite: SPED 520. Prerequisites: SPED 301 and SPED 401. Fall

SPED 565 INTERNSHIP IN SPECIAL EDUCATION II
6 or 12 credits
This post-baccalaureate internship is the second half of a yearlong field experience and seminar that focuses on the application of special education knowledge and skills in a K-12 school setting. Interns receive support from a college supervisor and mentor/cooperating teacher to meet identified special education program competencies. Corequisite: SPED 525. Prerequisite: SPED 560. Spring

Technology, Design and Safety

TDS 100 EXPLORING TECHNOLOGY
Designed to introduce students to the realm of technology. Focuses on the growth, development, and impact of technology using an activity-based, problem-solving approach. Fall, Spring

TDS 101 MANUFACTURING PROCESSES
A study of the processes by which consumer and industrial products are made. Emphasis on process advantages and limitations, safety, environmental impact, and financial concerns in process selection and decision making. Lectures and demonstrations. Fall, Spring

TDS 110 ELECTRICITY AND ELECTRONICS FUNDAMENTALS
An introductory course which examines topics from magnetism and electricity to electronics and microcomputers. A hands-on, experiential learning environment is used to stimulate creativity and understanding of the importance of electronics in today’s society. Recommended for all majors. 2-hour lecture, 2-hour lab. Fall

TDS 113 DIGITAL ELECTRONICS
An introductory course in the design and application of digital logic circuits. A project-oriented approach which uses an experiential learning environment to stimulate creativity and understanding of the basic building blocks of digital electronic products and microcomputers. 2-hour lecture, 2-hour lab. Fall

TDS 121 DRAFTING AND DESIGN FUNDAMENTALS
An introduction to graphic language for students with little or no previous experience with drafting or CAD. Freehand sketching, instrumental expression, and the use of computer-assisted drafting are explored. 2-hour lecture, 2-hour lab. Fall, Spring

TDS 140 INTRODUCTION TO VISUAL COMMUNICATION
An overview of the systems and techniques used to communicate ideas, knowledge and information with an emphasis on graphic communication processes. 2-hour lecture, 2-hour lab. Fall, Spring

TDS 152 PRODUCT DESIGN I
This course is the first of a four-course sequence. It will emulate the product design and development process from start to finish.
Topics include initial product ideas, quality control, prototype fabrication and testing. 2-hour lecture, 2-hour lab. **Fall**

**TDS 153  MACHINE TOOL PROCESSES**  
Deals with the processes involved with machining metal. Shop safety, proper use of hand and measuring tools, as well as the use of machine tools are covered. 2-hour lecture, 2-hour lab. **Fall**

**TDS 160  INTRODUCTION TO POWER AND ENERGY**  
Development of concepts and skills related to mechanical, fluid, electrical, and thermal systems. Includes an overview of energy sources and conversion processes. 2-hour lecture, 2-hour lab. **Spring**

**TDS 170  INTRODUCTION TO WOODWORKING TECHNOLOGY**  
Focus on woodworking systems in mass production application and one-of-a-kind manufacturing. Emphasis on problem solving and creativity in laboratory activities. Function, maintenance, safety, and use of tools, machinery, and materials included as supportive theory. 2-hour lecture, 2-hour lab. **Spring**

**TDS 175  CONSTRUCTION MATERIALS AND PROCESSES**  
An introduction to construction technology systems, including the planning, materials and processes used by building contractors to frame residential structures. The interrelationship of societal needs, the environment, and quality of life as they affect building design and construction practices, are introduced. 2-hour lecture, 2-hour lab. **Fall**

**TDS 181  SAFETY AWARENESS**  
Assessment of risk-taking and the causes of accidents and health risks. Designed for students of technology, design, safety, management, education, science, health, and industry. Development of safety strategies to produce minimum risk and maximum success in a variety of activities. **Fall**

**TDS 201  ENERGY SOURCES AND CONVERSION**  
Topics include initial product ideas, quality control, prototype fabrication and testing. 2-hour lecture, 2-hour lab. **Fall**

**TDS 210  LINEAR INTEGRATED CIRCUITS**  
Design and application of analog (nondigital) circuits, which include transistors, operational amplifiers, and specialized components such as analog-to-digital converters. Hands-on experiential learning based on team-selected projects. 2-hour lecture, 2-hour lab. Prerequisite: TDS 110. **Spring**

**TDS 212  PROGRAMMABLE LOGIC CONTROLLERS**  
An application-based approach to the study of programmable logic controllers. Ladder Logic and State Logic programming languages are studied for various design projects using IBM PCs for development, testing and documentation. 2-hour lecture, 2-hour lab. Prerequisite: TDS 110. **Spring**

**TDS 214  INSTRUMENTATION**  
An advanced course in the use of metrology for a wide range of testing and measurement applications. Digital and analog meters, oscilloscopes, recorders, digital logic and spectrum analyzers, and the study of sensors are used in an experiential learning environment. 2-hour lecture, 2-hour lab. Prerequisite: TDS 210. **Fall, alternate years**

**TDS 217  RESIDENTIAL/INDUSTRIAL ELECTRICITY**  
An introduction to the principles of residential and industrial electrical wiring following the National Electrical Code. Laboratory hands-on experience and demonstrations enhance understanding of the topics covered. 2-hour lecture, 2-hour lab. Prerequisite: TDS 110. **Fall**

**TDS 218  COMPLIANCE ENGINEERING**  
The design and manufacturing (ISO 9000) requirements of electrical and electronic-based equipment for the marketplace. Conformance to the European safety and electrical standards (CE), Underwriters Laboratories (UL) and Canadian Standards (CSA). Practical applications approach based on team oriented projects. 2-hour lecture, 2-hour lab. Prerequisite: TDS 110. **Fall or Spring, alternate years**

**TDS 222  DESIGN APPLICATIONS**  
Advanced design and drafting problems associated with industrial products manufactured from a variety of materials and by numerous processes. 2-hour lecture, 2-hour lab. Prerequisite: TDS 121, or permission of instructor. **Spring**

**TDS 228  COMPUTER-AIDED DRAFTING**  
Utilizes the computer to generate visual representations of objects. Includes familiarization with standard drafting techniques and practices, as well as various applications of CAD software. 2-hour lecture, lab by arrangement. **Fall, Spring**

**TDS 231  INTRODUCTION TO ARCHITECTURAL DESIGN**  
The design process and basic principles of functional building design and technology, progressing from project definition to final drawings. Student projects involve creating a complete design for a single family residence. 2-hour lecture, 2-hour lab. **Fall, Spring**

**TDS 247  PRINT PRODUCTION**  
Pre-press and production techniques within evolving industry standards. Includes preparation of mechanicals, camera ready copy, color separations and related digital output, offset and newer printing technologies. Also covers designer’s responsibilities in coordinating work with service bureaus and printing companies. 2-hour lecture, 2-hour lab. **Fall, Spring**

**TDS 251  MACHINE TOOL APPLICATIONS**  
Advanced laboratory applications and experimentation involving machine processes, instrumentation, inspection and measurement techniques, and the theory of metal removal. 2-hour lecture, 2-hour lab. Prerequisite: TDS 153. **Spring**

**TDS 252  PRODUCT DESIGN II**  
This course is the continuation of Product Design I and emulates the product design and development process from start to finish. Projects of increasing complexity are undertaken. Topics include initial product ideas, quality control, prototype fabrication and testing, 2-hour lecture, 2-hour lab. Prerequisites: TDS 152 or permission of instructor. **Spring**
TDS 253 MATERIALS OF MANUFACTURING
Fundamental properties of a wide range of materials, emphasizing microstructure and physical testing. Fall, alternate years

TDS 257 METALWORKING STUDIO
Design and manufacture of products using fabrication, pattern development, casting processes, and welding techniques. Project planning, implementation, and evaluation are stressed. Two 3-hour labs per week. Prerequisite: TDS 101. Spring, alternate years

TDS 265 ENERGY AND SUSTAINABLE DESIGN
Study of energy issues and sustainable building design. Primary focus on energy efficient buildings, solar energy systems, and related environmental issues. Projects involve energy analysis of buildings, evaluation of renewable energy options, and world energy issues. Fall

TDS 270 WOODWORKING PROCESSES
The design, production, and finishing of furniture, cabinets, and millwork. The historical development of cabinetry, as well as contemporary material and processes are covered. Exploration of advanced woodworking processes in the laboratory. 2-hour lecture, 2-hour lab. Prerequisite: TDS 170. Spring, alternate years

TDS 281 INTRODUCTION TO FIRE SCIENCE
An overview of the National Fire Protection Association Codes and Standards which apply to industrial and institutional environments. Special emphasis is placed on inspection procedures and methods of preventing, detecting, and extinguishing common industrial fires. Prerequisite: Safety majors and minors only, or permission of instructor. Fall, Spring

TDS 283 INTRODUCTION TO TRAFFIC SAFETY
Study of the elements that compose the driving task and the highway transportation system. Emphasis on human performance variables, traffic engineering, and related research. For educators and those whose responsibilities include motor fleet safety. Summer - Continuing Education

TDS 284 INDUSTRIAL SAFETY
The application of scientific and engineering principles to the analysis of processes, equipment, products, facilities and environments in order to optimize safety and health effectiveness. Topics include legislative overview, problem identification, control concepts, and basic engineering principles. Fall, Spring

TDS 286 ERGONOMICS
The application of ergonomic principles to prevent musculoskeletal disorders. Topics include work physiology, cumulative trauma disorders, and risk factors such as temperature, repetition, and manual material handling. Fall, Spring

TDS 290 SPECIAL TOPICS
1-3 credits
Study of a selected topic in the Technology, Design and Safety Department. May be repeated as topics change. Prerequisites vary with topics. Fall, Spring

TDS 294 COOPERATIVE EDUCATION
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120 hours/credit) to maximum of 12 credits per degree program. Prerequisites: 24 total credits earned, 2.0 cumulative GPA, and permission of instructor. Graded Pass/Fail. Fall, Spring

TDS 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

TDS 311 MOTION CONTROL SYSTEMS
An application-based approach to the study and design of open-loop motion systems and closed-loop servo systems. Team-oriented experiential learning environments encourage creative designs for practical applications using DC step-motors and DC and AC servo-motor controls. 2-hour lecture, 2-hour lab. Prerequisites: TDS 113 and TDS 210. Spring, every three years

TDS 312 ROBOTICS/AUTOMATION
Explores the industrial applications of robotics and material-handling equipment. The study of the electronic controls, pneumatic, and hydraulic and electromechanical subsystems and control software will be enhanced through practical design applications. 2-hour lecture, 2-hour lab. Prerequisites: TDS 110 and junior standing. Fall, alternate years

TDS 313 MICROCOMPUTERS
An advanced digital electronics course which explores the architecture, operation, and practical applications of microcomputers and peripheral hardware components. Assembly language programming for the Intel 80X86 processors will be covered as well as practical microcomputer interfacing applications. 2-hour lecture, 2-hour lab. Prerequisites: TDS 110 and TDS 113. Spring

TDS 320 GRAPHICAL ANALYSIS
Advanced study of graphic solutions to technical problems. Includes basic concepts in descriptive geometry and an introduction to vector analysis. 2-hour lecture, 2-hour lab. Fall, alternate years

TDS 328 THREE-DIMENSIONAL CAD
Includes wireframe modeling, surface modeling, shadowing, external referencing, and customizing software. 2-hour lecture, 2-hour lab. Prerequisite: TDS 228. Spring

TDS 331 INTERMEDIATE ARCHITECTURAL DESIGN
Study of site planning, codes, structural methods, and other design issues for a variety of building types. Students create details for steel, reinforced concrete, wood, and masonry
structures, and work in teams creating design solutions for a complex building project. 2-hour lecture, 2-hour lab. Prerequisite: TDS 231. Fall

**TDS 334 COLLABORATIVE ARCHITECTURAL PROJECT**
Project-centered course emphasizing team approach to solving complex architectural problems. Students conduct architectural projects in the local community for a specific client and site. Involves planning, design, cost analysis, and construction management. Prerequisite: TDS 231 or permission of instructor. Spring

**TDS 335 ARCHITECTURAL SYSTEMS**
Introduction to mechanical and electrical systems for buildings. Basic principles are studied and applied to designs of heating and cooling systems, water and electrical systems for a variety of building types. 2-hour lecture, 2-hour lab. Prerequisites: TDS 265 or permission of instructor. Spring, every three years

**TDS 332 PRODUCT DESIGN III**
This course is the third in the Product Design series. Specific design projects are undertaken which require an advanced knowledge of Computer-aided Design/Manufacturing. Topics include initial product design, product specifications, prototype fabrication and evaluation. 2-hour lecture, 2-hour lab. Prerequisite: TDS 252 or permission of instructor. Fall

**TDS 333 METHODS ANALYSIS**
Approaches to maximizing production efficiency through the use of methods analysis charts, motion study charts, and time study techniques. Prerequisite: junior standing or above. Spring, alternate years

**TDS 335 SOLAR DESIGN**
The design of passive and active solar systems for buildings. Study of basic principles, performance calculations, design optimization, and architectural integration of solar heating, cooling, and photovoltaic systems. Students design buildings using coordinated solar energy systems. 2-hour lecture, 2-hour lab. Prerequisite: TDS 265. Spring, alternate years

**TDS 337 CONSTRUCTION APPLICATIONS**
An in-depth study of the material and practices used to construct energy-efficient, residential buildings. Emphasis is placed on interior and exterior finish, estimating, scheduling, and related trade work. Prerequisite: TDS 175 or equivalent. Spring, alternate years

**TDS 330 SAFETY AND HEALTH STANDARDS**
Compliance with OSHA in the workplace, including rights and responsibilities under OSHA, inspections, citations, appeals, and record keeping. The course will also cover the more frequently referenced standards in general industry. Prerequisite: TDS 284 and CHEM 103/107, or permission of the instructor. Fall, Spring

**TDS 331 LEGAL ASPECTS OF SAFETY**
Study of liability and the legal ramifications of accidents. Includes safety management concerns, personal and administrative liability, chemical dependency issues, and an introduction to federal and state regulations governing safety in industry, education, and transportation. Prerequisites: TDS 181, TDS 284, CHEM 103/107, and Safety majors and minors only, or by permission of instructor Fall, Spring

**TDS 333 HAZARDOUS MATERIALS**
The safe handling, storage, and use of hazardous materials for industrial, commercial, transportation, and public service operations are covered in detail. Accident prevention measures, training, emergency procedures and response, public safety, and regulatory requirements are studied. Prerequisites: TDS 281 or permission of instructor. Safety majors only. Fall, Spring

**TDS 335 METHODS OF TEACHING DRIVER AND TRAFFIC SAFETY EDUCATION**
4 credits
Professional preparation to meet the traffic and safety needs of schools and communities. Methods of classroom and laboratory teaching. State and national standards and recommended practices for teaching driver and traffic safety education. (Includes laboratory experience.) Prerequisites: valid operator’s license, acceptable driving record, and TDS 283, or permission of instructor. Summer – Continuing Education

**TDS 337 ACCIDENT INVESTIGATION**
A study of the various techniques and procedures used in investigating accidents, with special emphasis on those procedures used in the industrial environment. Case studies and actual accident scenarios are used as part of the course. Prerequisite: TDS 284, TDS 380, and CHEM 103/107, or permission of the instructor. Fall, Spring

**TDS 330 MANUFACTURING ENTERPRISE**
Organization and implementation of a student-managed industrial enterprise, including a general overview of economic systems and corporate structure. Emphasizes laboratory covering design, production and distribution of marketable consumer products. 2-hour lecture, 2-hour lab. Prerequisite: junior standing or above. Fall

**TDS 330 STATICS AND STRUCTURAL ANALYSIS**
Analysis of systems in static equilibrium. Begins with fundamental physical laws and progresses to equations of forces and moments on rigid bodies, and analysis of frames, trusses, and internal forces and moments in beams. Prerequisites: MATH 120 and PHYS 141. Fall, alternate years

**TDS 330 EMBEDDED CONTROL SYSTEMS**
An advanced microcomputer applications course which explores the field of embedded control systems. Assembly and C or C++ languages are used as the main programming tools for single board microcomputer control applications. 2-hour lecture, 2-hour lab. Prerequisites: TDS 313 and CS 280. Fall, every three years

**TDS 330 MECHANISM DESIGN**
Concepts of motion, displacement, velocity, and acceleration; graphical methods for analysis of vectors and relative motion. Emphasizes the use of drafting skills to solve problems by graphical layout. 2-hour lecture, 2-hour lab. Prerequisite: TDS 222. Fall, alternate years
TDS 421 TOOL DESIGN
Design of industrial tooling using CAD and/or traditional drafting techniques. Includes jigs, fixtures, dies, and molds. 2-hour lecture, 2-hour lab. Prerequisites: TDS 153 and 228. Spring, every three years

TDS 422 ADVANCED MECHANICAL DESIGN
Mechanical design problems including detail and assembly drawings and related dimensional and tolerancing principles utilizing advanced CAD techniques. 2-hour lecture, 2-hour lab. Prerequisites: TDS 222 and 228. Fall, alternate years

TDS 434 ARCHITECTURAL DESIGN PROJECT
Culminating course in architectural program with solution of real problem. Each student develops a complete design and set of drawings for a real client and site. Course emphasizes group interaction, peer review, and evaluation by independent architects. Prerequisite: TDS 331. Spring

TDS 436 ARCHITECTURAL MATERIAL SCIENCE
Study of physical properties of building materials, focusing on strengths, thermal, and moisture related characteristics. Emphasizing concrete, steel, wood, plastic foam and films, and composite materials. Prerequisites: TDS 175 and 331. Fall, alternate years

TDS 452 PRODUCT DESIGN IV
The capstone course for the Product Design series. Students will work on individual projects using advanced computer-aided Design/Manufacturing methodologies. Topics include project selection, development of solutions to design problems, and product fabrication. 2-hour lecture, 2-hour lab. Prerequisite: TDS 352, or permission of instructor. Spring

TDS 482 INDUSTRIAL HYGIENE
Study of the various techniques and procedures involved in the practice of industrial hygiene. Examines the anticipation, recognition, and control of occupational health hazards in the workplace that can cause illness among workers or citizens of the surrounding community. Prerequisites: TDS 284, TDS 380, TDS 381, CHEM 103/107, and Safety majors only. Fall, Spring

TDS 487 SYSTEM SAFETY
A study of system safety as a technique in the management of industry and the environment using quantitative and qualitative methods of analysis to control risk. Topics include a variety of analytical techniques that are applied to practical systems. Prerequisite: TDS 284, and CHEM 103/107, or permission of instructor. Fall, Spring

TDS 489 ORGANIZATION AND ADMINISTRATION OF SAFETY PROGRAMS
Instructional and administrative aspects of comprehensive safety programs. Emphasizes the application of knowledge and skills through classroom and field experiences. Analysis of personal and environmental safety factors. Recommended for educators and people in safety-related fields. Prerequisites: TDS 181, TDS 284, TDS 380, TDS 381, CHEM 103/107, and senior status, or permission of instructor. Fall, Spring

TDS 490 ADVANCED SPECIAL TOPICS
1-3 credits
Study of a selected topic in the Technology, Design and Safety Department at an advanced level. May be repeated as topics change. Prerequisites vary with topics. Fall, Spring

TDS 494 ADVANCED COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensation may be received. Placements arranged and supervised by Cooperative Education with approval and evaluation by full-time faculty. Elective credit only (normally 120/hours credit) to maximum of 12 credits per program. Prerequisites: TDS 294, 2.0 cumulative GPA, Declaration of Major, and permission of instructor. May be repeated for credit. Graded Pass/Fail. Fall, Spring

TDS 495 SEMINAR
1-3 credits
Small-group discussion of problems and issues in Technology, Design, and Safety. May be repeated as topics change. Fall, Spring

TDS 498 INDEPENDENT STUDY
1-6 credits
Advanced independent study of various fields of Technology, Design, and Safety through independent reading, writing, laboratory work, or field investigation. Requires a written report. Prerequisite: permission of instructor. May be repeated to a total of 6 credits. Fall, Spring

Theatre and Dance

TAD 101 INTRODUCTION TO THEATRE ARTS
A team-taught course that familiarizes students with several aspects of theatre arts and provides a basis either for further participation in or increased appreciation of acting, dance, design, directing, dramatic literature and technical theatre. For lower division students or by permission of instructor. TAD 101 is a prerequisite for all 300-level theatre courses. Fall, Spring

TAD 111 THEATRE MOVEMENT
Training to free the body and develop it into a versatile, aware, responsive instrument of the actor’s craft. Movement studies, journals, critiques required. Spring

TAD 121-122 TECHNICAL THEATRE I, II
3 credits each
Intensive study of all aspects of technical theatre. First semester: tools and materials, two and three dimensional scenery, costume construction, scenic painting, and casting techniques. Second semester: electricity, lighting and sound, props, rigging, operation of stage crews. TAD 121 may be taken alone for credit, but it is a prerequisite for TAD 122. Corequisite: TAD 123–124. TAD 121 Fall, TAD 122 Spring
TAD 123-124 THEATRE LABORATORY I, II
1 credit each
Production training in theatre. Students are assigned to either the costume shop or the scene shop. Projects are assigned according to theatre department production needs. Projects may cover such areas as: scenic construction, painting, lighting, rigging, sound, props, costume construction and accessories. Must be taken concurrently with TAD 121-122. TAD 123 Fall, TAD 124 Spring

TAD 131 WESTERN THEATRE: HIST/LIT I
The history and literature of Western theatre examined from Ancient Greece to the Italian Renaissance. Exploring the great dramatic works and learning the context in which they were written through lectures, readings, videotapes, and discussion. Fall

TAD 132 WESTERN THEATRE: HIST/LIT II
The history and literature of Western theatre examined from the Renaissance in France and England to the end of the 19th Century. Exploring great dramatic works and learning contexts in which they were written through lectures, readings, videotapes and discussion. Prerequisite: TAD 131. Spring

TAD 162 DESIGN FOR THE PERFORMING ARTS
The elements of design used in the creation of a theatrical event. Exploration of the fundamental design elements and practical application of design theory through visual projects. Fall, Spring

TAD 201 ACTING I
The actor’s art and craft, with emphasis on the development of technical skills and the emotional and intellectual resources required in acting. Voice and movement, and the techniques of improvisation and characterization. Fall, Spring

TAD 202 ACTING II
A continuation of TAD 201, this course introduces students to performance styles, textual analysis, and scene study. Students in this course must audition for all Keene State Theatre productions. Prerequisite: TAD 201. Fall, Spring

TAD 208 MAKEUP
The basic principles and techniques of makeup design used to enhance the actor’s work. Includes the opportunity to design and execute makeup and serve as makeup directors and crew members on Keene State Theatre productions. Prerequisite: TAD 101, TAD 121, or TAD 201.

TAD 211-212 MODERN DANCE I, II
3 credits each
An introduction to modern dance, designed to enable students to develop an understanding and appreciation for this art form, as well as to experience its discipline and creativity. Includes technique, movement principles, modern dance history, written reports, and fundamentals of dance composition. TAD 212 may be repeated once for credit. TAD 211 may be taken alone for credit, but it is a prerequisite for TAD 212. TAD 211 Fall, Spring; TAD 212 Spring, Fall alternate years

TAD 216 JAZZ DANCE
An introductory course in jazz dance with emphasis placed on rhythm manipulation, isolations and qualitative contrasts within the technique of different jazz styles. Background in modern technique recommended. Fall

TAD 217 BALLET FOR MODERN DANCERS
A studio course composed of barre, centre work, locomotor movements and jumps originating from ballet. Basic anatomy will be introduced to encourage working from the inside out. Prerequisite: TAD 211 and Dance major or minor, or by permission of instructor. Spring

TAD 218 CREATIVE MOVEMENT EDUCATION

TAD 222 THEATRE LABORATORY III
1 credit Further practice in various arts and crafts of theatre, including construction and painting of scenery and properties, stage operation, lighting, sound, costuming, makeup, and publicity. A minimum of 40 hours of studio work per credit. May be repeated for credit. Corequisite: TAD 225, TAD 227, TAD 361, TAD 362, and TAD 363. Fall, Spring

TAD 225 COSTUME CONSTRUCTION
Basic sewing and patterning techniques used in the construction of theatrical costumes. Includes a series of projects culminating in a drafted bodice sloper. Must be taken concurrently with TAD 222. Fall

TAD 227 STAGE MANAGEMENT
Theory and practice of stage management. Students study the operation of a theatrical production from first production meeting through closing. Course work culminates in management of a Keene State Theatre production. Corequisite: TAD 222. Prerequisite: TAD 121. Fall, odd years

TAD 231 WESTERN THEATRE: HIST/LIT III
The history and literature of Western theatre examined from the end of the 19th Century to the present. Exploring great dramatic works and learning contexts in which they were written through lectures, readings, videotapes and discussion. Prerequisites: TAD 131, TAD 132. Fall

TAD 235 MODERN DANCE HISTORY
Historical survey of modern dance as an art form. Explores choreographers and their choreography from 1900 to the present through lectures, videotapes, films, readings and discussion. Fall, alternate years

TAD 265 RENDERING FOR THE THEATRE
A study of the major styles of architecture and clothing through the ages while exploring various media for rendering, including pencil, charcoal, pen and ink, watercolor, acrylic, and watercolor. Fall, odd years
TAD 282 VOICE AND DICTION
Vocal production, use of the International Phonetic Alphabet for sound identification and articulation, and work in techniques of relaxation, breathing, centering, and resonance. Active participation required in warm-ups, articulation drills, memorization for presentations. Formerly TASF 172. Fall

TAD 290 SPECIAL TOPICS
An exploration of areas not covered by the regular curriculum. Content depends on available faculty and resident artists. May be repeated for credit.

TAD 297 PRODUCTION CREDIT
1 credit
With the approval of the faculty member concerned, a student may earn credit for fulfilling a position of responsibility on a faculty-directed production. May be repeated for credit. Fall, Spring

TAD 298 APPLIED PERFORMANCE
1-3 credits
This lecture/laboratory course in theatre or dance examines the performance process from audition through conceptual analysis, rehearsal, and ensemble development, to the critical stage experience. May be repeated for credit for a maximum of 6 credits. Prerequisite: Permission of instructor. Fall, Spring

TAD 301 ACTING III
Training in actor preparation and building a character, with emphasis on establishing character relationships and ensemble work. TAD 301 may be taken alone for credit, but it is a prerequisite for TAD 302. Prerequisites: TAD 131 or TAD 132 and TAD 202, or permission of instructor. Fall

TAD 302 ACTING IV
A continuation of TAD 301, with concentrated work on traditional and experimental rehearsal techniques and styles of performance. Prerequisites: TAD 101, TAD 131 or 132, and TAD 301, or permission of instructor. Spring

TAD 303 STAGE DIRECTING
An introduction to the director’s functions and the resources available for translating an interpretive idea into a successful production. Requires committed participation in the preparation and performance of production exercises. Prerequisites: TAD 101, TAD 131, TAD 132, TAD 201, and TAD 202. Fall, odd years

TAD 304 DIRECTING WORKSHOP
A studio workshop for the preparation, rehearsal, performance, and evaluation of scenes and one-act plays. Emphasis is on interpreting a text, choosing controls to support this concept, and working effectively with actors and designers. Prerequisites: TAD 303 and permission of instructor. Spring, odd years

TAD 311-312 MODERN DANCE III, IV
3 credits each
Intensive work in body awareness, movement principles, improvisation, and progressively more advanced dance technique. Sources for choreography and theatrical aspects of dance are explored as students learn to create solo and group dances. Written work required. May be repeated once for credit. Prerequisites: TAD 211-212 or equivalent modern dance training. TAD 311 may be taken alone for credit, but it is a prerequisite for TAD 312. TAD 311 Fall, TAD 312 Spring

TAD 318 CHOREOGRAPHY
Exploration of the craft and art of choreography through application of compositional theory in dance and improvisation, developing creative resources and theatrical elements. Choreographic projects, studios, readings, papers required. Prerequisites: two modern dance courses or permission of the instructor and concurrent enrollment in TAD 211, TAD 212, TAD 216, TAD 311, or TAD 411. May be repeated once for credit. Fall

TAD 330 PLAYWRITING
The theory and technique of playwriting, culminating in the writing of a play. Students study the structure of action, character, and dialogue. Written assignments include preliminary exercises, rough drafts, rewrites, and final drafts. Prerequisites: TAD 101, TAD 131 and junior class standing, or permission of instructor. Fall, odd years

TAD 352 STUDIES IN CRITICAL THEORY
Using a historical perspective, critical theory as it applies to theatre, dance, and film is examined. May be repeated for credit as topics change. Prerequisites: TAD 131, TAD 132, and TAD 231 or permission of the instructor. Fall

TAD 361 SCENIC DESIGN
How a designer analyzes a script and works with the director to create a design. Students study techniques of rendering, sketching, model building, and drafting. Must be taken concurrently with TAD 222. Prerequisites: TAD 101, TAD 121, TAD 131, TAD 132, TAD 162, and TAD 261, or permission of instructor. Spring, odd years

TAD 362 LIGHTING DESIGN
The lighting designer’s role in the creation of a stage design. Lighting principles, instrumentation, color theory, script analysis, and light plots. Must be taken concurrently with TAD 222. Prerequisites: TAD 101, TAD 121, TAD 131, TAD 132, TAD 162, or permission of instructor. Spring, even years

TAD 363 COSTUME DESIGN
The role of the costume designer in the theatrical process. Students study basic costume history, principles of design, script analysis and rendering techniques. Must be taken concurrently with TAD 222. Prerequisites: TAD 101, TAD 121, TAD 131, TAD 132, and TAD 162, or permission of instructor. Spring, odd years

TAD 364 SCENE PAINTING
The art of scene painting for the stage. Techniques include grid layout, drop painting, architectural detail and shading. Prerequisites: TAD 101 and TAD 122, or permission of instructor. Fall, odd years

TAD 411-412 MODERN DANCE V, VI
3 credits each
Advanced work in modern dance technique. Compositions include group collaborations (V) and studies specific to styles of individual modern dance choreographers (VI). Prerequisites:
TAD 311-312 or permission of instructor. TAD 411 may be taken alone for credit, but it is a prerequisite for TAD 412. May be repeated once for credit. TAD 411 Fall, TAD 412 Spring

TAD 490 ADVANCED SPECIAL TOPICS
An exploration of areas not covered by the regular curriculum. Content and prerequisites depend on available faculty and resident artists. May be repeated for credit.

TAD 495 SEMINAR
Intensive study of a particular theme or topic relating to theatre or dance. May be repeated for credit as topics change. Content and prerequisites vary, but will include a TAD course related to the topic of the seminar, and junior standing, or permission of instructor. Fall, Spring

TAD 498 INDEPENDENT STUDY
1-6 credits
Intensive study of an issue, problem, or topic related to theatre arts or dance. May be repeated for a total of 6 credits. Prerequisites: junior standing and permission of instructor. Fall, Spring

Women’s Studies

WS 201 INTRODUCTION TO WOMEN’S STUDIES
An interdisciplinary, historical, and global view of women that appreciates their diversity including class, culture, age, race, and sexual preference. Includes the study of the concept of patriarchy and women’s responses to intellectual and social exclusion. May be taken for General Education credit in the Arts and Humanities or the Social Sciences, but not both. Fall, Spring

WS 290 TOPICS IN WOMEN’S STUDIES
Concentrated study around a specific issue or theme that applies interdisciplinary methods to readings and analysis of selected topics. Builds on foundations acquired in the introductory course. May be repeated for credit as topics change. Prerequisite: WS 201. Fall, occasional Spring, Summer

WS 298 INDEPENDENT STUDY
1-6 credits
An opportunity for a qualified student to explore work in an area of individual interest, selected and pursued in consultation with a faculty member. Consent is required from the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

WS 301 FEMINIST THEORY
The study of historical and critical foundations and current principles of feminist theory that can be applied to other disciplines. Prerequisite: WS 201. Fall, Spring

WS 495 SEMINAR
Exploration of major issues in women’s studies under the direction of the Women’s Studies Program faculty. Seminar content contingent on student interest and faculty expertise. Prerequisite: WS 301. Spring

WS 497 INTERNSHIP
Culminating experience using Women’s Studies course work as background for participant observation in the practical affairs and activities of a women’s organization or other institution, private or public, involving women. Prerequisite: WS 301. Spring

WS 498 INDEPENDENT STUDY
1-6 credits
Independent reading, writing on an approved topic under direction of a Women’s Studies faculty member. May include field work. Prerequisites: WS 201, two WS electives, and permission of instructor. May be repeated to a total of 6 credits. Spring
Academic Policies

Governance
The College Senate, the legislative body of the College, has jurisdiction over educational policy and programs. After appropriate administrative approval, the actions of the College Senate are subject to the approval of the University System of New Hampshire Board of Trustees.

Students’ Responsibility
Students are responsible for being aware of and abiding by all College academic policies outlined in this catalog and in the Student Handbook. These include such things as Attendance Policy; Athletic Eligibility; Auditing; Add/Drop/Withdrawal Policy; Forgiveness Policy; Contract Course Work; Declaration of Major Policy; Grading System; Academic Standing; Academic Probation and Suspension; and Graduation Requirements.

Certain academic requirements must be met before a degree is granted. These requirements govern curricula and courses, majors and minors, and campus residence. Advisors, directors, and deans will help a student meet these requirements, but the student is responsible for fulfilling them. At the end of the student’s course of study, the faculty and the Board of Trustees vote on conferring the degree. If requirements have not been satisfied, the degree will be withheld pending fulfillment.

Catalog Policy
Each new edition of the Keene State College Undergraduate and Graduate Catalog becomes effective at the opening of the fall semester following its publication.

To earn a degree or simultaneous degrees, including components such as a second major, specialization, or a minor, a student must complete all graduation requirements specified in the Keene State College Undergraduate and Graduate Catalog for the same academic year. The catalog to be used to determine graduation requirements may be no older than the academic year of official admission. Any student who leaves the College and who is subsequently readmitted to a degree program will be required to meet graduation requirements in effect for the semester of readmission.

Typically, students follow graduation requirements for the catalog in effect at the time of first enrollment as a degree student at Keene State College. A student may choose to follow graduation requirements from any subsequent catalog while matriculated. A student electing to change from one academic program (e.g., major) to another may retain his or her original catalog year provided it is possible for the student to complete the graduation requirements. If that is not possible, a student must select a more recent catalog to determine graduation requirements.

Enrollment Status

Course Load. The maximum credit load for matriculated undergraduate students is 19 credits. Exceptions to this policy must be approved by the Director of Academic Advising prior to registration for credit overloads. A student requesting an exception must do so in writing, including the number of credits to be attempted, specific courses, rationale, and an unofficial copy of his/her academic transcript. Additional tuition will be charged for credit overloads.

Academic Year. Full- and part-time enrollment status for each fall and spring semester is determined according to the following table.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 or more</td>
<td>Full-time</td>
</tr>
<tr>
<td>9 – 11</td>
<td>3/4 time</td>
</tr>
<tr>
<td>6 – 8</td>
<td>Half-time</td>
</tr>
<tr>
<td>1 – 5</td>
<td>Less than half-time</td>
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</tbody>
</table>
Cooperative Education. A student participating in full-time or part-time cooperative education experience will be classified as a full-time or part-time student respectively if he/she meets the criteria described below. This classification by the Office of the Registrar will be solely for the purpose of establishing a student's status at the institution, not for payment of tuition. The student pays only for the number of credits for which he/she is registered.

Full-time student status is granted to a student working full-time (as defined by employer) for a minimum of 12 weeks during an academic semester in an approved cooperative education position. The student must also be registered simultaneously for 4-6 cooperative education credits at Keene State College. A student working part-time in a cooperative education position will be considered full-time by Keene State College if the total of cooperative education credits (maximum 3) and other course credits equals 12 or more credits during an academic semester. A student working part-time in a cooperative education position with fewer than 12 total credits during an academic semester will be considered to be a part-time student at Keene State College.

Summer Sessions. Full- and part-time enrollment status for each summer session is determined according to the following table. These summer criteria apply to academic status only and are different from regulated federal financial aid enrollment status criteria. See Financial Aid Policies section of the Student Handbook.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 or more</td>
<td>Full-time</td>
</tr>
<tr>
<td>4 – 5</td>
<td>3/4 time</td>
</tr>
<tr>
<td>3</td>
<td>Half-time</td>
</tr>
<tr>
<td>1 – 2</td>
<td>Less than half-time</td>
</tr>
</tbody>
</table>

The maximum credit load for undergraduate students is 7 credits/session. Exceptions to this policy must be approved by the Director of Continuing Education.

Graduate Students. Graduate student enrollment status is described in the “Advanced Study in Education” section of this catalog.

Class Status

Class status is determined according to total credits earned and recorded on the student’s permanent academic record at Keene State College.

Attendance Policy

This policy emphasizes the correlation between attendance and academic achievement.

A student is expected to attend all class meetings of courses in which he or she is enrolled. Any form of attendance used by an individual professor as a criterion for evaluation must be specified in the course syllabus and presented to students during the first week of classes.

A student who misses in excess of three weeks of classes prior to the eleventh week of the semester (for any reason whatsoever) must withdraw from the course. The student must follow the regular withdrawal procedure. The faculty member may waive this policy at his/her discretion, but if the faculty member wishes to enforce the policy, he/she will inform the student in writing, who then must initiate the withdrawal. A student so notified who fails to withdraw from the course will be given an F for the course.

An instructor must take attendance in a course at the first class session. At the beginning of the first class session, the instructor may “give away” the seat that has been reserved for any student who has failed to attend the first class without an excused absence. The student whose reserved seat has been reassigned must formally withdraw from the course.

A student expecting to be absent from a class meeting that is a scheduled date for tests, projects, papers, or similar assignments must contact the instructor before the absence (if possible) to arrange for making up work that will be missed.

Make-up procedures apply only to excused absences, including those arising from an emergency. Excused absences include: adverse weather conditions, illness, accident, death in the family, occurrences deemed proper by the instructor, and approved activities. Approved activities include: field trips, scheduled athletic events, off-campus use of academic resources, and authorized special projects.
Make-up procedures for excused absences are determined with the individual instructor; they carry no penalty to the student unless he/she fails to comply with the arrangements agreed upon. Instructors are not obliged to provide make-ups for unexcused absences.

Any student who feels that an instructor has incorrectly handled a request for an excused absence has the right to appeal that decision to the appropriate divisional dean. The decision of the dean is final.

Athletic Eligibility

Keene State College is a member of Division III of the National Collegiate Athletic Association (NCAA) and its regional affiliate, the Eastern Collegiate Athletic Conference (ECAC), and the Little East Conference (LEC). Student athletes must meet all the eligibility requirements of the NCAA in order to participate in intercollegiate athletics.

NCAA eligibility includes, but is not limited to, these requirements:

- must be a full-time student, enrolled in at least 12 credits per semester and matriculated into a 4-year degree granting program
- must be accepted through the regular admissions process of the College
- must be in good academic standing as determined by the institution (see Academic Standing, p. 170)
- must have passed 24 credits applicable to a degree in the preceding two full-time semesters (summer sessions may be included) or must have passed an average of 12 credits applicable to a degree per full-time semester of attendance
- has 10 full-time semesters to complete four years of eligibility.
- Transfer students from two-year and four-year institutions must meet additional requirements. Contact the Athletic Department for more information.

At the beginning of each semester of competition, each participating student’s academic record is reviewed by the Registrar, the Director of Athletics, and the NCAA faculty representative. Eligibility must be certified before a student competes; eligibility interpretations are governed by the NCAA.

Auditing

Under the audit policy, potential students are encouraged to enroll in courses that provide an opportunity for them to assess their capacity to do college-level work for credit or that enable them to explore a discipline of interest.

Students may register to audit a course on a “space available” basis. Class participation is determined by the instructor; the student does not have to take examinations and does not receive credit for the course. The audit fee is fifty percent of the tuition fee for lecture courses. For studio, computer programming, laboratory/field studies, or skill courses, the fee is one hundred percent of the tuition fee.

Students admitted as auditors may not change their registrations to “credit” after the second week of classes; students registered for credit may not change to “audit” after the second week of classes.

Adding and Withdrawing from Courses

Add/Drop Period. A student may add or drop a course (without fee) beginning with the first class of the semester through the completion of classes on the seventh calendar day of the semester. Any course added during the one-week Add/Drop period requires the signature of the instructor on an Add/Drop form. Any course dropped during the one-week Add/Drop period requires the signature of the instructor or a departmental or divisional administrative assistant. Courses dropped during the Add/Drop period will not be recorded on the student’s permanent academic record.

In the case of a course scheduled to begin during (rather than at the beginning of) a semester, a student may add or drop a course by obtaining the instructor’s signature on an Add/Drop form and submitting the signed form to the Office of the Registrar. Once the course has begun, a student has seven calendar days to add or drop the course with the instructor’s signature on an Add/Drop form.

Late Course Addition. Any course addition occurring more than seven calendar days after the beginning of the course will be by exception. The signature of the instructor is required on an Add/Drop form. A fee is charged.
Course Withdrawal Period. A student has the option of withdrawing from a course from the end of the add/drop period through the end of the 11th week of classes in a semester. This time period, which includes 70 percent of the total class meetings for a semester, is intended to provide sufficient opportunity for the student to communicate with the course instructor in support of making informed decisions concerning his or her academic progress in a course. A student is strongly urged to discuss the impact any course withdrawal might have on his or her academic and/or financial status with his or her advisor(s), the Elliot Center, or with Student Financial Services before withdrawing from a course.

A student must communicate with the course instructor regarding his or her intention to withdraw from a course. The required signature of the course instructor on an add/drop form indicates that the course instructor has been notified. The completed add/drop form is submitted to the Office of the Registrar. A fee is charged. A “W” will appear on the student’s permanent record. The “W” will not affect the student’s grade point average.

After the 11th week, a student should be committed to each of his or her classes for the remainder of the semester. The student will receive a letter grade in each course.

Course add/drop and withdrawal regulations and timelines for sessions other than the traditional fall and spring semesters during the academic year (e.g., summer sessions and quarter terms) are published in the Keene State College Academic Calendar or the appropriate bulletins pertaining to those sessions.

English Language Competence

Essay Writing (ENG 101) is required of all students. It should be completed during the freshman year and is not open to juniors or seniors unless they are transfer students.

Forgiveness Policy

Courses not designated as repeatable may be retaken once if a student has received a grade of “CD” or lower.

Students taking advantage of the Forgiveness Policy must register for the course, pay tuition, and complete and submit the Forgiveness form available in the Elliot Center.

All grades received in the course will be entered on the transcript, but only the second grade will be included in the calculation of the grade point average. When the grade is the same, the most recent grade will be included in the calculation of the grade point average. Credit will be given only once.

All grades received at Keene State College are recorded on the student’s permanent transcript. If a course is retaken at another college or university, only the credit earned is entered on the student’s permanent record. The original grade in the course is neither entered nor calculated into the grade point average. A course substitution form must be completed in order to use a transferred course for Forgiveness.

The Forgiveness Policy does not apply to courses taken for graduate credit.

Course Repetition

Courses may be designated as repeatable by academic departments and programs. Departments and programs must state in course descriptions the maximum number of credits a student may receive or whether a student may receive unlimited credit. Departments and programs must also state whether the permission of the instructor is required. Prerequisites may be specified by departments and programs as topics change.

Declaration of a Major

Students declare a major by completing a form provided by their academic advisor or the Elliot Center and returning it to the Elliot Center. Students may declare a major any time after admission but must do so by the time they have earned 60 credits. The Registrar will deny access to course selection for any student who has earned 60 semester hours and has not declared a major.

Dual Major

A dual major is defined as an academic program that includes one degree and a minimum of two majors (e.g., B.S. Management/Economics). A student earning a dual major must complete the General Education requirements specified by the degree (e.g., Bachelor of Science). Restrictions regarding the use of General Education-eligible courses required by the major(s) are waived. The student must complete all courses required by each major.
Students will be awarded only one bachelor’s degree (a B.A. or B.S.) at a single commencement ceremony. Exceptions to this policy are noted in the section “Earning a Second Undergraduate Degree” below. However, students may complete a dual major and the second major may be in a different degree program. Thus, students who complete the requirements for more than one major under a single degree may declare and be awarded the bachelor’s degree with a dual major (e.g., B.A. Psychology/Sociology). In cases where the majors are in different degree programs (B.A. and B.S.), students must indicate on their Intent to Graduate forms how the diploma should list the majors (e.g., B.S. Management/ Psychology or B.A. Psychology/Management).

Earning a Second Undergraduate Degree

**Consecutive Second Degree.** A student who has completed one undergraduate degree may earn an additional undergraduate degree by completing the requirements for the second degree. The student completing a second degree must satisfy the General Education requirements for the second degree. Restrictions regarding the use of General Education-eligible courses required by the major(s) are waived.

Candidates for a second bachelor’s degree must apply through the regular admission process and complete a minimum of 24 credits beyond the first degree. Normally, work toward the second degree must be completed within six years of the time the applicant is officially admitted to the program. Credits used to satisfy the requirements of one or more bachelor’s degrees may not be used to satisfy the requirements of a graduate degree.

**Simultaneous Second Degree.** The conferring of two bachelor’s degrees at the same commencement requires completion of a minimum of 144 credits (120 plus 24), including fulfillment of requirements for both degree programs. Restrictions regarding the use of General Education-eligible courses required by the major(s) are waived. The conferring of an associate and a bachelor’s degree at the same commencement requires completion of all requirements for both degree programs. The same exception to General Education restrictions applies.

**Grading System**

Grades at Keene State College are recorded as A (4.0), AB (3.5), B (3.0), BC (2.5), C (2.0), CD (1.5), D (1.0), and F (0.0). These courses are graded Pass/Fail (P/F): Music Workshop (MU 100) Student Teaching (ED/SPED 409, ESEC 460, ESEC 465, SPED 460, SPED 465) Honors Seminar (PSYC 496) Honors Research (PSYC 499) Cooperative Education (294 and 494) Sport and Leisure Activities (PE 150-186)

Students who wish to change from credit-to-audit, audit-to-credit, or undergraduate-to-graduate status in a course must do so during the first two weeks of the semester.

An Incomplete (“I”) may be given when there have been extenuating circumstances or illness. An ‘I’ is not calculated into a student’s quality point average, but becomes an “XF” if the course requirements are not completed by the end of the seventh week of the following semester, or, for students granted an academic leave of absence, by the end of the seventh week of the semester following the leave. The “XF” grade is calculated as an “F” in the student’s cumulative G.P.A. Exceptions to the above stated procedure require approval of the appropriate divisional dean.

The grade In Progress (“IP”) is given only for courses requiring more than one semester to complete. The Divisional Deans submit to the Registrar a list of courses in their divisions for which an “IP” grade is appropriate. Any course for which an “IP” is awarded must be completed within one semester after the “IP” is given, at which time the “IP” will change to an “XF” if the work is not finished. Exceptions to the above stated procedure require approval of the appropriate Divisional DSean.

**Grade Appeals**

If a student believes that he/she has not been graded according to criteria contained in the course syllabus, or has been graded unfairly or inaccurately, the student should first consult with the course instructor about the course requirements and grading procedures.
If the student is still dissatisfied, he/she may file an appeal in writing to the instructor’s Divisional Dean. The Divisional Dean will conduct whatever review is necessary to arrive at a resolution, including, if necessary, a meeting with the instructor and the student.

If the matter is not resolved at this level, the student may appeal in writing to the Vice President for Academic Affairs. If the Vice President for Academic Affairs determines that the matter cannot be otherwise resolved, he/she has the option of removing any record of the student’s registration in the course from his/her transcript without penalty to the student.

**Progress Reports**

Faculty are encouraged to issue mid-semester progress reports to students in 100- and 200-level courses who are achieving academic excellence or who are achieving below the acceptable class standard.

**Cumulative Grade Point Average (GPA)**

The Cumulative Grade Point Average is determined (1) by multiplying the grade weight (A=4, AB=3.5, B=3, BC=2.5, C=2, CD=1.5, D=1, F=0) for the grade in each course times the number of credits the course carries, in order to determine the grade points for each course; (2) by adding all grade points earned; and (3) by dividing this total by the total number of credits for all courses in which grades have been earned. Grades earned at other institutions are not included in the calculation of the cumulative grade point average.

A semester quality point average may be calculated in the same way. For example, the semester quality point average for a student who received one A, three Bs, and one C in five three-credit courses during a given semester would be calculated as follows: 12 grade points for the one A (A=4 times 3 credits), 27 grade points for the three Bs (B=3 times 9 credits for three courses), and 6 grade points for the one C (C=2 times 3 credits), giving a total of 45 grade points. Dividing the total grade points (45) by 15 (5 courses times 3 credits each), yields a semester quality point average of 3.0.

Credits for each course for which a “P” is awarded are used to determine total credits earned by the student toward graduation, but the credits in such courses are not used in calculating grade point averages. Also, noncredit courses are not used in computations for grade point averages. When using the Forgiveness Policy, repeated courses count only once and grade points are based on the last grade for the course.

**Academic Standing**

A matriculated student is required to maintain a cumulative grade point average (GPA) of 2.00 to be in good academic standing.

A minimum grade point average of 1.00 is required of first semester freshmen, transfer, and re-admit New Start students at the conclusion of their initial semester. Any of these students earning a grade point average less than 1.00 at the conclusion of their first semester will be academically suspended.

**Academic Probation and Suspension**

Each student is responsible for becoming aware of, and meeting, the standard established for academic performance at Keene State College. A grade point average (GPA) of 2.00 is required to be in good academic standing. Failure to achieve the specified, minimum scholarship standard will result in academic probation or possible academic suspension.

**Academic Probation.** Any matriculated student who has a cumulative GPA greater than or equal to 1.00 and less than 2.00 will be placed on academic probation for the ensuing semester. A student who fails to improve his or her GPA to a minimum of 2.00 at the conclusion of the first semester of probation will be continued one additional semester of probation. A student who fails to achieve the required cumulative GPA of 2.00 at the conclusion of the second successive semester on probation will be suspended. With the exception of an error by the College in assessing or recording academic performance, a student may not appeal for reinstatement.

**Academic Suspension.** A minimum grade point average of 1.00 is required of new students (freshmen, transfer) following their first semester and readmit students following their first semester of re-admittance. Failure to meet this requirement will result in automatic suspension. With the exception of an error by the College in assessing or recording academic performance, a student may not appeal for reinstatement.

A student who fails to achieve the required cumulative GPA of 2.00 at the conclusion of the second successive semester on probation will be suspended. With the exception of an error by the College in assessing or
recording academic performance, a student may not appeal for reinstatement.

Academic suspension from Keene State College results in the loss of matriculated status for one fall or spring semester immediately following the notice of suspension.

Suspension excludes students from all nonacademic activities at Keene State College. However, academically-suspended students may enroll for a maximum of seven credits during a fall or spring semester or during the summer school program (session 1 and 2 combined) through the Division of Continuing Education at Keene State College. If completion of these courses causes the student’s cumulative grade point average to meet or exceed the appropriate minimum scholarship standard, then the student may apply for readmission to the College for the semester following the mandatory semester of separation.

The criteria for readmission are specified in the Readmission Requirements policy statement in the Undergraduate Admission section of this catalog.

Grade Appeal Process. If a student believes that he or she has not been graded according to criteria contained in the course syllabus, or has been graded unfairly or inaccurately, the student should pursue the Grade Appeals process defined elsewhere in the Academic Policies section of this catalog. The student should inform the Office of the Registrar in writing that a grade appeal is in process, including the specific course(s) and grade(s) in question.

In cases where an error has been made by the College in assessing or recording academic performance (e.g., incorrect grade, calculation of GPA), the appropriate adjustments will be made to the student’s official academic record. If warranted, a student’s academic standing will be corrected and the academically suspended student will be reinstated.

Policy on Academic Honesty

Principles

The pleasure and sense of accomplishment in doing original scholarship are central to the college experience. For some students, the resulting excitement and sense of purpose will be so great that they will decide to go beyond the undergraduate experience and dedicate their lives to research and writing. But for all students, the feeling of satisfaction and pride in producing their own work, without misusing or misappropriating the work of others, helps build confidence in their intellectual abilities and their powers of dealing with the larger world. To encourage this sense of purpose and accomplishment, Keene State College expects students to understand and observe certain widely accepted principles and standards of academic and intellectual honesty.

What is academic honesty?

Academic honesty is taking full responsibility for your course work and for your intellectual and educational development. One important aspect of academic honesty is acknowledging the writing, ideas, and research of others. This enables you to accept, without reservation, full credit for your own ideas and scholarly work. While learning from the work of others is essential to the educational process and to all serious research, it is important for you and for your audience to discern what is original in your work.

The accepted method of acknowledging the work of others when it appears in your writing is citation and proper quotation. Citation may take one of several forms: footnotes, endnotes, or parenthetical citation within the text of your essay. The best method is the one generally accepted in the field in which you are working. Quotations should be exact and enclosed in quotation marks. Some form of citation usually accompanies quotations. If you are restating in your own words the ideas of others you should use some form of citation to remind the reader that these ideas originated elsewhere. Web sites as well as books and articles are sources you should acknowledge. If in obtaining material from a web site you are unsure of the author, you should at least cite the location of the web page, so your reader can examine it. Current handbooks and manuals such as the MLA Handbook and the Chicago Manual of Style explain how to cite web sites as well as all kinds of printed materials. See the discussion of plagiarism (below) for further information.

Beyond the writing and research process, academic honesty extends to every aspect of course work. It requires proper conduct during exams, accepting assignments and carrying them out to the best of your ability, and always being truthful about every aspect of your course work, research, and laboratory work. The academically honest and responsible student respects the work of fellow students, respects the function and
property of the library, honors scientific procedure, and understands the role of exams in determining intellectual growth.

**What is academic dishonesty?**

Honoring your own work is essential to the principles of academic honesty and integrity. If you plagiarize by incorporating the ideas or words of others without properly acknowledging them, you are violating those principles and doing yourself, your instructor, and the College a disservice. You cannot be fairly evaluated and cannot fairly evaluate your own education without distinguishing your own intellectual accomplishment from the accomplishments of others. If you cheat on exams, you are violating not only the regulations of the College and the trust of your instructor but your own intellectual integrity. If you fail to properly carry out laboratory experiments and simply fake the results, you are violating the principles of scientific research that have made the modern world possible. Because academic honesty is essential to the educational process, College policy must state clearly the grounds of academic dishonesty and must prescribe sanctions for violation of the principles of academic honesty and integrity.

Academic dishonesty is the violation of the principles of academic integrity. Academic dishonesty may include (but is not limited to) any of the following cases:

1. Giving or receiving aid in quizzes or tests, in the writing of papers, or in the preparation of lab reports or other homework assignments, unless an instructor explicitly allows for or requires collaboration; in such cases where collaboration is allowed or required, instructor guidelines on the form(s) and extent of such collaboration must be adhered to;
2. Taking an exam for someone else or having someone take an exam in one’s place;
3. Purchasing a term paper, using one from a “file” of old papers, having someone write a paper, or writing one for someone else;
4. Turning in a “dry” lab report (faking the data without doing the experiment);
5. “Padding” items in a bibliography (i.e., listing works not actually used);
6. Feigning illness to avoid an exam or other required work;
7. Stealing a copy of an exam, or selling/using a stolen copy of an exam;
8. Sabotaging someone else’s work or removing material from the library that other students are required to use or cutting material out of books or journals in the library;
9. Plagiarizing the work of others, including using material off the Internet without proper citation (see also below);
10. Sharing research for a paper or in-class presentation with a student in a different section of the class or in a different class (without specific permission to do so);
11. Altering or forging college documents (e.g., changing information in transcripts or grade reports or forging a faculty/library staff member’s name or initials on a form);
12. Using materials, information, illustrations, charts, or diagrams from web sites without proper acknowledgement;
13. Not properly citing sources of information in speeches and/or public presentations.

There may be occasions when a faculty/library staff member permits, recommends, or even requires collaborative effort; however, students should be careful to follow whatever guidelines are set up by faculty/library staff for collaborative work. Unless such collaboration is specifically discussed, students should assume that collaboration is not acceptable, that collaboration is, in fact, a punishable offense.

Plagiarism is the use, in a paper or presentation, of the words, ideas, or opinions of someone else, from any source whatsoever, that appear to be your own. The most obvious kind of plagiarism is the use of another’s exact words without quotation marks and/or without appropriate citation. A second kind of plagiarism is the use of another’s ideas, thoughts, or opinions without proper citation: simply putting another’s thoughts into your own words (paraphrasing) is not enough—you must also cite the source of material when you paraphrase another’s ideas.

Another, more subtle form of plagiarism is the use of another’s sequence of ideas, arrangement of material, or pattern of thought without giving proper citation. Material taken from Internet or web sources must also be acknowledged through appropriate citation, whether
you use the original source’s words or not. In general, students should be aware that a good deal of material needs to have the source cited, and that citations are not limited only to direct quotations (exact words within quotation marks).

There is, of course, nothing wrong with using the work of others, if the writer gives proper documentation. In fact, the use of sources (“authorities”) to support one’s views is often a tactic in increasing credibility; indeed, in certain kinds of papers students are often required to use other sources. A simple test:

Have I read any materials, which I am using in this paper but have not cited? Am I deliberately referring to or recalling any particular source of information as I write this paper? Am I quoting or paraphrasing any source as I write?

If the answer to all three questions is no, the writer probably need not worry about using sources dishonestly. If the answer to any of these questions is yes, the student must provide proper citation of his or her source(s). If there is any doubt whatsoever, it is always best to ask the faculty/library staff member for whom the paper is being written. Indeed, any question about any form of academic dishonesty should be addressed to the appropriate faculty/library staff member. It is always “better safe than sorry.”

Academic honesty for international students
Academic honesty can have a very different meaning in educational institutions abroad, and there is an increasing number of international students at Keene State College. The National and International Exchange center provides assistance both to international students and to faculty/library staff who are dealing with issues of academic honesty with students from other countries. However, all Keene State students will be held accountable for adhering to the Academic Honesty Policy.

Brief Overview of the Handling of Academic Honesty Policy Violations
The College review of Academic Honesty Policy violations is an administrative process. It is not a criminal law process; nor is it intended to resemble one. The College review of Academic Honesty Policy violations is not required to observe formal rules of evidence and may exclude unduly repetitious or immaterial information.

Although all cases of academic dishonesty are serious, some are more serious than others. Those that are less serious will be handled by the faculty/library staff member, who will decide on the appropriate sanction – from restitution to redoing the assignment to failure for the assignment to an F for the course. The initial sanction will be imposed by the faculty/library staff member, but all violations must be reported to the appropriate Dean/Director of Mason Library, who will schedule a conference with the student to discuss the incident and the student’s right to appeal. The Dean/Director of Mason Library will make a final decision regarding the student’s responsibility in the case based on the preponderance of evidence. The Dean/Director of Mason Library will report the outcome to the Office of the Vice President for Academic Affairs (VPAA), where the reports will be kept on file. The reports, with appropriate supporting documentation, will be kept in the VPAA’s “active” file for five years after a student either graduates or stops taking courses at the College, after which time the reports will be removed to an archival file.

More serious offenses – the stealing, selling, or buying of an exam; the presentation of a paper that is wholly or largely the work of another, including “purchased” or “file copies” of term papers; or having a “substitute” take an exam – will be considered as grounds for, and result in, permanent dismissal from the College. If the Dean/Director of Mason Library determines an offense is serious in nature or is a subsequent offense, he/she may consider it grounds for dismissal.

Academic Honesty Violation Reporting Procedures
• An alleged violation occurs.
• Faculty/library staff fills out form that includes:
  Charge.
  Evidence attached.
Sanction issued after consulting sanction guidelines (normally within one working day of discovering the violation).
• Faculty/library staff meets with student.
  Form is reviewed with student. Faculty/library staff members explain charges, evidence, and sanctions.
  Student signs original of the form. This does not indicate responsibility, only that the student has been informed of and understands the process and charges.
A copy of the form is given to the student. Faculty/library staff explains the hearing process with the dean/library director (normally within 3 working days of filling out the form).

- Divisional dean/library director and faculty/library staff meet and discuss form, evidence, and sanction (normally within 3 days of receipt of form from faculty/library staff).
- Divisional dean/library director and student meet:
  - Review student history before meeting.
  - Meet with student and review form (normally within 3 days after meeting with faculty/library staff).
  - Student gives his/her account.
  - Student states whether or not he/she takes responsibility for incident.
  - Dean/director determines student responsibility (finding must normally be rendered within 5 days of meeting with student).
  - Dean/director shares sanction with student and faculty/library staff.
  - Dean/director explains the appeal process.
  - Dean/director explains future consequences of violating policy.
- Dean/director notifies all parties in writing, normally within 15 days of final meeting with student.
- Student determines if she/he wants to appeal.
  - Student has 5 working days from date on outcome letter to submit, in writing, appeal and grounds for appeal.
  - Appeals are sent to the VPAA.
  - VPAA determines which cases should be heard by Appellate Board (board hears all cases that resulted in expulsion).
  - Appellate Board makes recommendations to the VPAA. Decisions of the VPAA are final.
  - All case records are filed in the Office of Mediation and Dispute Resolution.

More detailed procedures and processes pertaining to the Policy on Academic Honesty can be viewed at www.keene.edu/policy/academichonesty.cfm.

**College Withdrawal**

Students wishing to withdraw from the College must secure a withdrawal form from the Associate Vice President for Student Affairs. This form, when complete and authorized with appropriate signatures, must be cleared with the Bursar’s Office for settlement of accounts.

Students leaving the College during the course of a semester without officially withdrawing are held responsible for their registration for that semester. An unofficial withdrawal from the College results in failure in all courses and consequent suspension or dismissal action, as well as loss of any refund privileges.

**Academic Leave of Absence**

A student seeking a leave of absence must make a written request to the Associate Vice President for Student Affairs. The request must include the reason for the leave and the exact semester the student intends to return to campus.

When a leave of absence has been officially granted by the College, no additional readmission procedure is needed.

**Dean’s List**

At the end of each semester, matriculated students who complete a semester with a minimum of six credits of indexable (not pass/fail) grades, earn a semester grade point average of 3.5 or higher, receive no failing grades nor grades of Incomplete, and have no missing grades, will be placed on the Dean’s List.

**Commencement Policy**

Students expecting to meet the requirements for their baccalaureate degree(s) within the calendar year (May, August, December)* may participate in May commencement. Students may not participate in commencement more than once for the same degree. The requirements for the degree must be completed before a degree is awarded and a diploma is issued.

*Students will be identified as graduating in May, August, or December and will be designated as such in the May commencement ceremony.
Graduation Requirements

1. A student must be formally admitted to a degree program before beginning the final 30 credits of a degree. Students intending to participate in the May commencement ceremony (including August and December graduates) must submit the Intent to Graduate Form to the Office of the Registrar by October 1.

2. To earn a degree, a student must complete at least 30 credits in residence at Keene State College. Credits taken through the National and International Exchange programs and the New Hampshire Consortium will be considered credits earned at KSC. Note: Refer to Transfer of Credit policy in the current Keene State College catalog.

3. Students must satisfactorily complete the prescribed requirements of the curriculum in which they are enrolled and must present a cumulative grade point average of 2.0 or higher.

4. Payment of relevant fees (e.g., graduation, fines) must be received before a diploma is issued.

The Associate Vice President for Academic Affairs must approve exceptions to graduation requirements.

Commencement Honors

A graduating student who has earned at least 60 graded credits at Keene State College in a bachelor’s degree program, or at least 30 credits at Keene State College in an associate degree program, is eligible to graduate with academic honors.

Recognition of commencement honors at the commencement ceremony is based on the student’s cumulative grade point average as of the preceding December.

A student’s permanent record (e.g., transcript and diploma) will reflect commencement honors based on the student’s cumulative GPA upon completion of his or her degree program.

Honors in specific disciplines are awarded to those who complete the honors requirements of their respective academic discipline (3.20 minimum), and who have a cumulative GPA of 3.20 or higher.

A student with a cumulative GPA of 3.9 or higher will earn summa cum laude honors. A student with a cumulative GPA of 3.70-3.89 will earn magna cum laude honors. A student with a cumulative GPA of 3.50-3.69 will earn cum laude honors.

Transcript (Academic Record)

The Office of the Registrar maintains official academic records, including class rosters, schedules, and transcripts. Upon graduation, one official transcript of a student’s academic record accompanies the diploma free of charge. Thereafter, there is a fee for each official transcript. Transcripts will be sent by the Office of the Registrar only upon receipt of a written request with the student’s signature, ID number, last year of attendance, full name while attending, and current address, accompanied by payment. Checks should be made payable to Keene State College.

A student requesting a change to his or her academic transcript in an area that, under current policy and procedure, is the student’s responsibility, must initiate the change within one calendar year of the conclusion of the semester in question. This limitation does not apply in an area recognized as the responsibility of Keene State College.

Student Records

Pursuant to the passage of the Family Educational Rights and Privacy Act of 1974 20 U.S.C. 1232g (the “Buckley Amendment”) and subsequent amendments and clarifications by the U.S. Senate Joint Resolution No. 40, the Board of Trustees of the University System of New Hampshire adopted a policy which assures a student access to education records which pertain to matriculation within Keene State College.

In general, the law provides that:

a. Student records are confidential, with the exception of predetermined public directory information.

Privacy Hold Policy. Directory information, either published or in dealing with routine inquiries, is defined by Keene State College as the following:

Name
Mailing address
Mailing telephone
Local/campus address
Local/campus telephone
E-mail address (KSC)
Date/Place of birth
Major(s)
Dates of attendance
Degree(s) and awards received

All other information contained in official student education records is available only to those persons
within the College who have a legitimate need for it, and to all others, only with the expressed consent (i.e., signature) of the student.

**Choice 1:** All address and telephone information will be held from printed or electronic directories. The student’s presence at Keene State College will be acknowledged in response to routine inquiries, and name, date of birth, major, degrees, and awards received will be published such as Dean’s List, Commencement program, and announcements. Students will be eligible to receive a College e-mail account.

**Choice 2:** All directory information will be held in confidence, which means the student’s presence at Keene State College will not be acknowledged in response to routine inquiries. No directory information will be listed in print or electronic media, and the student’s name will not be published in Dean’s List announcements, honors, recognitions, Commencement program, or newspaper listings. In addition, federal law prohibits our response to inquiries by employers or prospective employers. The student will not be able to receive a College e-mail account.

*Students are advised to seek advice and counseling from the Registrar before choosing this option, as it is very restrictive.*

Once a student places a privacy hold of either type upon his/her record, it shall remain in place until the Office of the Registrar is notified in writing, signed by the student, to change or remove the hold. This applies even if the student separates him/herself from the institution.

b. Students shall have access to their official education records with the exception of financial aid records submitted by parents, confidential references submitted prior to January 1, 1975, and medical, psychiatric, and counseling records used only in connection with providing treatment to the student. A student may have a doctor or other professional examine and explain medical, psychiatric, and counseling records, and may, at the discretion of the Coordinator of Health Service, obtain at his/her own expense, copies of his/her medical (exclusive of psychiatric and counseling) records.

c. Students shall have the right to know information contained in their education record and to have a hearing to determine the appropriateness of such information remaining in the record. The following offices maintain educational records on all students enrolled at the College:

- Bursar’s Office
  Elliot Hall

- Office of the Registrar
  Elliot Hall

- Associate Vice President for Student Affairs,
  Student Development
  Elliot Hall

The following offices maintain education records for some of the students enrolled at the College:

- Elliot Center
  Elliot Hall

- Office of Intercollegiate Athletics
  Spaulding Gymnasium

- Arts and Humanities
  Parker Hall

- Professional and Graduate Studies
  Rhodes Hall

- Sciences and Social Sciences
  Science Center

- Health Services
  Elliot Hall

- Residential Life Office
  29 Butler Court

- Student Financial Services Office
  Elliot Hall

- Student Loans Office
  Elliot Hall

- Teacher Education and Graduate Studies Office
  Rhodes Hall

For more information concerning the Buckley Amendment or for assistance in locating individuals or offices maintaining a student’s educational record, contact the Office of the Vice President for Student Affairs, Lloyd P. Young Student Center.
Academic Support Programs

Elliot Center
The Elliot Center offers coordinated support for students in the areas of academic and career development. Combining academic and career advising, the Aspire program, and the Office of the Registrar, the Center, located on the first floor of Elliot Hall, is a dynamic hub that involves students, faculty, and staff.

Academic and Career Advising (ACA)
The major objective of Academic and Career Advising is to assist student growth in the following areas: self-awareness and intellectual potential, the ability to identify realistic academic and career goals and to devise a program of study to achieve them, and the awareness of life beyond the College experience.

Orientation Advising. ACA also conducts the College’s Orientation programs, where new first-year students have the assistance of faculty, student, and/or staff advisors during orientation advising. These advisors introduce the College’s academic advising system, explain General Education requirements, provide an overview of major requirements for those students who have identified an intended major, and assist students with the advising/course selection process.

Major Advising. Department chairs or their designees are responsible for assigning advisors to students who have officially declared their major or have indicated an intended major. The faculty advisor is available to assist with program requirements, long-range planning, career opportunities, and professional recommendations.

Students who are undecided about their major are advised by the ACA staff. The staff can assist students in exploring academic and career options and utilizing the tools available to them, such as the academic information in their MyKSC accounts and program planning sheets.

Students must formally declare a major by the time they have earned 60 credits. Transfer students with more than 60 credits have one semester before they must declare their major.

Career Advising. The ACA staff also assists students with career issues, including career exploration, resume development, and job search and interviewing skills. Students are encouraged to work with faculty in their disciplines to develop internship and cooperative education opportunities as well as plans for post-graduation employment and graduate school.

Aspire
The Aspire Program is a federally funded program designed to provide academic assistance to Keene State College students. The heart of the program is a peer-tutor program. Tutors are available for many of the 100- and 200-level courses offered at the College. Aspire also coordinates the Supplemental Instruction (SI) Program, which provides peer-facilitated group assistance. Aspire’s Tutor Program and SI Program are available to all students.

However, many students are eligible for additional services. Eligible students are those who meet income criteria, are the first in their families to go to college, or have a documented disability. Through the Aspire Program, students meet individually with a member of the professional staff to improve study skills, organize their time, set goals, and work to their full potential. Aspire staff also work with students to explore additional funding sources, academic majors, careers, and graduate school. Workshops on study skills, time management, and other topics of interest are offered throughout the academic year.

Assessment of Non-College Learning
Students whose independently acquired knowledge and/or skills are equivalent to those normally gained in an undergraduate college program may attempt to
earn college credits through assessment of non-college learning. There are two options available: credits by examination and credits by portfolio assessment. The following criteria must be met:

1. The student is admitted to Keene State College.
2. Credits do not duplicate credits from other sources which have been applied toward Keene State College degree requirements.
3. Keene State College will accept up to 60 credit hours in a four-year program and up to 30 credit hours in a two-year program.
4. Credits may be applied toward General Education requirements or elective credits, or may replace major requirements if approved by the faculty of the major discipline through the course substitution process.

**Credits by Examination.** Testing programs recognized by Keene State College include the following: the College Level Examination Program (CLEP), American College Testing Proficiency Examination Program (ACT/PEP), and formally approved discipline examinations. The student must score at or above the 50th percentile in order to be eligible for credit.

The CLEP General Examinations may be taken by any student who has not enrolled in or completed a college-level course in the discipline covered by the examination. Credits earned may be applied toward General Education requirements or open electives.

The CLEP Subject Examination may be taken by any student who has not enrolled in or completed an equivalent or more advanced course in the discipline covered by the examination. For ENG 101, Essay Writing, a student must (1) pass the CLEP “Freshman College Composition” Examination and (2) write an acceptable essay supervised by the Coordinator of English Composition.

The ACT/PEP examination may be taken by any student who has not enrolled in or completed an equivalent or more advanced course in the discipline covered by the examination. When a student is hired for a cooperative education position, a Learning Agreement is developed in consultation with the faculty sponsor and the employer. This agreement specifies all expectations/requirements for the position. The Learning Agreement and all accompanying forms must be submitted to the Office of the Registrar before the student begins the cooperative education position.

Cooperative Education

The Cooperative Education Program allows students to earn elective credits and valuable work experience in paid and unpaid positions related to their academic programs. To qualify, students must be matriculated undergraduates who have earned at least 24 credits with a minimum 2.0 cumulative grade point average.

Students may research their own cooperative education position or apply for positions posted in their departments.

Students are responsible for recruiting a faculty member from the appropriate discipline to sponsor their cooperative education experience. It is very important that the student establish a solid working relationship with the faculty member before accepting a position.

When a student is hired for a cooperative education position, a Learning Agreement is developed in consultation with the faculty sponsor and the employer. This agreement specifies all expectations/requirements for the position. The Learning Agreement and all accompanying forms must be submitted to the Office of the Registrar before the student begins the cooperative education position.

Cooperative education positions must be new learning experiences for the student and must last a minimum of 10 hours per week for at least 12 weeks within an academic semester. Students can earn 1-3 credits for part-time experiences or 4-6 credits for full-time experiences (full-time status as determined by the employer). A maximum of six credits can be earned per semester; cooperative education is repeatable for a total of 12 credits.
Students may register for cooperative education experiences in the fall, spring, or summer semesters; the credits are paid for in the same manner and at the same rate as other courses. Students who are involved in full-time cooperative education experiences are considered full-time students by the College even though they earn and pay for only six credits.

Once students are registered, they may not drop or withdraw from a cooperative education course. Grading is pass/fail and is assigned by the faculty sponsor, based on satisfactory completion of all requirements.

Note: Not all disciplines offer Cooperative Education; check the Courses of Instruction section of the Catalog by discipline for course numbers 294 (Cooperative Education) and 494 (Advanced Cooperative Education).

The Math Center
The Math Center is a relaxed and comfortable place for learning mathematics. Our peer tutors, peer course assistants (PCAs), and course-specific assessment exams can help students succeed from the very beginning of their math study at Keene State.

Tutoring at the Math Center is a drop-in service for students who have questions about quantitative concepts taught in math classes or classes with a quantitative component. Students may come in with specific questions to ask the tutor, or to just do their work and know that the tutor is there to help.

Special review sessions for the math portion of the PRAXIS I exam are held at the Math Center before each testing date on campus during the fall and spring semesters. Specific tutors are also available during the regular tutoring times to help review for the exam.

PCAs are students who are assigned to specific 100-level mathematics courses to provide support for the students. They aid the instructor during the class and outside of class by holding approximately 3 hours of study sessions per week. The availability of PCAs varies from semester to semester, depending on the needs of the instructors.

The Math Center staff administers exams and quizzes for individual faculty members within the mathematics department as well as proficiency and assessment exams for individual courses. Students who need to take an exam or quiz at the Math Center may contact Barbara Yardley at 603-358-2023 to make an appointment.

For more information, visit at www.keene.edu/mathctr or stop by at 88 Winchester Street.

The Center for Writing
The Center for Writing assists students with all phases of writing, from brainstorming a project to the actual completion and editing of final drafts. The faculty at KSC acknowledge that writing is a shared responsibility that crosses all departmental majors; they therefore work closely with the Center to support students’ writing in every discipline. Often faculty require that all class writing projects be read and discussed with a Center tutor before final submission. Tutors, who are selected from a pool of recommended students, are required to participate in ongoing training sessions on the teaching of writing to help them become competent and comfortable with one-on-one tutorial sessions.

The Center is located at 81 Blake Street, behind the Student Center and next to the Mathematics Building. Students are welcome at any time, but appointments are recommended. In addition to tutoring sessions, the Center also serves as a resource for handouts and current information about research methods, academic honesty, and plagiarism, as well as skills work. For more information or to make an appointment, call 603-358-2412. The Center for Writing also has helpful tips and useful information at www.keene.edu/wtf.

National and International Exchange
Keene State College encourages students to consider a semester or a year on exchange. Specific program information is available from the National and International Exchange Center in Elliot Hall.
Program options include:

**National Student Exchange (NSE).** The NSE offers students the opportunity to attend one of 175 colleges and universities within the United States, Guam, Virgin Islands, and Puerto Rico. A domestic alternative to study abroad, NSE is a chance to study cultural diversity within the United States, to search directly for graduate and job opportunities, and to take courses not offered at KSC.

**KSC International Exchange Programs.** KSC has direct exchange programs established with colleges and universities in Ecuador, England, France, Canada, and Russia. A student is eligible for an exchange during the sophomore, junior, and senior years, and can go more than once to the same or different places.

**Non-KSC International Programs.** If you are interested in studying in a country outside of the KSC international exchange options, the Exchange Center can help you find a program that fits your academic and personal needs. Keene State has membership in a number of international consortial programs, including the University of Wollongong in Australia and the Cross-Cultural Center in Seville, Spain. Keene State also belongs to the College Consortium for International Studies, which offers more than 60 study-abroad programs throughout the world. Especially popular consortial destinations are Australia, Costa Rica, Italy, Ireland, Spain, and New Zealand.

**The Application Process.** The minimum grade point average required to participate in study away programs is 2.5, with a few exceptions. Some programs require a higher grade point average. Students must apply in advance and be approved to participate in study-away programs in order to receive transfer credit. Applications and information on selection criteria are available at the National and International Exchange Center.

**Costs for study away.** All KSC students studying away are assessed a $500 study-away fee. A nonrefundable deposit is required at the time of application. The cost of study-away programs varies with each program. Some programs, but not all, cost only slightly more than attendance at KSC. In most cases, financial aid recipients can apply their aid toward approved study-away programs. Information on the cost of programs is available in the National and International Exchange Center.

Students interested in an international experience on campus can request an international roommate and/or join the International Friends Club, a student organization comprised of international students and KSC students interested in international affairs.

**Air Force ROTC**

Students may enroll in the Air Force Reserve Officers Training Corps (ROTC) program through the University of Massachusetts-Lowell. Students may attend Air Force ROTC classes at UMass-Lowell, Mass., or Daniel Webster College in Nashua, N.H. Additional information on Air Force class schedules, scholarships, and eligibility requirements is available by calling AFROTC Detachment 345 at UMass-Lowell, 508-934-2252.
The Arboretum and Gardens of Keene State College have been created to support the teaching, research, and public service mission of the College by: 1) preserving unique and/or mature plant specimens that may have historic value; 2) developing and adopting a planned and botanically systematic approach to collecting and installing new and diverse plant material; 3) creating a model outdoor field laboratory to promote botanical and horticultural awareness as an educational resource for the College, the community, and region; 4) maintaining interpretive materials, including plant identification, accession, mapping, and maintenance records; and 5) providing a visually appealing, diverse and cohesive, accessible landscape setting that provides a physical and emotional atmosphere conducive to academic advancement, recreation, and reflection.

A printed brochure leads scholars and visitors on a self-guided walk through the central campus, introducing the ornamental trees and shrubs and the landscape history of the campus.

The Redfern Arts Center on Brickyard Pond serves academic and community needs in the fine and performing arts. Opened in 1981, it houses four theatres, eight art studios, a dance studio, band and choral rehearsal rooms, 20 practice modules, scenery and costume shops, and a reception and gallery area.

The building also houses the classrooms and offices of the art, music, and theatre and dance programs. The four theatres – the Main Theatre, seating 572; the Alumni Recital Hall, seating 360; the Wright Theatre, seating 125; and the Putnam Arts Lecture Hall, seating 154 – suit a wide variety of productions.

The Arts Center schedules recitals, concerts, theatrical productions, dance concerts, and art exhibits by the College’s academic programs, as well as a full season of outstanding professional artists in dance, theatre, and music who frequently offer workshops and master classes.

The Arts Center has been the recipient of numerous grants for innovative programming from the National Endowment for the Arts, the New England Foundation for the Arts, and the New Hampshire State Council on the Arts. It has received national recognition as the host to the American College Regional Theater and Dance Festivals.

The Thorne-Sagendorph Art Gallery was a gift to the College in 1964 from beaTrix Sagendorph of Dublin in memory of her mother. The gallery maintains a year-round schedule of exhibits of national and international quality and distinction, while affirming a strong commitment to the historic artistic tradition of southwestern New Hampshire. The exhibitions, receptions, and educational programs are free and open to the public. In addition, an internship program is offered to Keene State art students and exhibit space is provided for faculty and student shows. The gallery has two skylit exhibit halls, climate control, and a sophisticated security system. It is located on Wyman Way.

BodyWorks, the campus fitness center, helps motivate the campus community to achieve and maintain a lifestyle of health and wellness. The goals of BodyWorks are based on the expectation of improved physical health and vitality as well as enhancement of academic
and workplace productivity that result from regular physical activity.

BodyWorks is part of the Recreation Center housed inside Spaulding Gymnasium. It offers more than 35 cardiovascular machines on the top level as well as a complete circuit of weight-training machines and free-weight equipment on the lower level. In addition, BodyWorks offers several services to its members, including complete fitness assessments and personal training packages.

BodyWorks serves as a laboratory for students majoring in Health Promotion and Fitness. They make up the entire student staff. Supervised by health fitness professionals, these students can link the research and theory taught in the classroom to the practical application necessary to successfully manage a fitness facility.

The Cohen Center for Holocaust Studies, located on the first floor of Mason Library, provides access to a wide range of printed materials for anyone who wishes to study, teach, or do research on the Holocaust. The Center, which supports a multi-disciplinary minor in Holocaust Studies and an extensive educational outreach program, contains more than 4,400 volumes, several periodicals and annuals, thousands of articles, over 340 videos, and numerous curricula. Materials are available to members of the college community for a limited circulation period and may be used in the Center by anyone. The acquisition of materials is funded largely through private donation.

The Child Development Center (CDC) is a best practices demonstration early childhood education center located on campus in Elliot Hall. The CDC is a learning community dedicated to providing excellent programs for young children and practical experiences for students studying to be teachers. Undergraduate and graduate students are offered supervised experiences, under the guidance of early childhood professionals, in the direct education and care of infants, toddlers, and preschool children. Many students also work in the CDC as volunteers and as work-study students.

The CDC’s curricula follow an integrated model in which children learn as they observe, play, and participate in a wide range of child-centered activities. Family communication and involvement are integral to the program. We welcome observations by anyone interested in excellent early childhood programs for young children.

The Community Research Center (CRC) mission is to develop research skills and promote professional development among Keene State College students while helping to meet the research needs of nonprofit and public agencies in the Monadnock Region. It primarily assists agencies with needs and program assessment, grant writing, and conducting local surveys, but is available to help in other research areas. The CRC seeks to strengthen community and campus relations through the services it provides for local agencies.

The Community Research Center (CRC) was created as a result of sociology students’ desire to conduct hands-on research that benefits and enriches the local community. The goals of the CRC include the following:

- Strengthen the community by assisting its nonprofit and public agencies
- Build social capital in the region by establishing relationships between Keene State College and the community’s nonprofit and public agencies
- Collaborate with local agencies and organizations on community research projects
- Increase the resources available to agencies by providing assistance in writing grant proposals and compiling data
- Improve the effectiveness of agencies by assisting them in program assessment
- Provide educational tools and workshops related to survey research, grant writing, and evaluation
- Develop research skills, professionalism, and a sense of civic responsibility among Keene State College students.
The Community Research Center is located in Room N128, Rhodes Hall. For more information, visit the CRC web site at www.keene.edu/crc or call 603-358-2810.

The Curriculum Materials Library (CML) makes available a wide range of curriculum and professional development materials for students in education courses. The collection emphasizes vocational-technical education and K-12 math, science, geography, guidance, and safe schools. It contains curricula models, videos, software, kits, and textbook sets. The CML is located in the west wing of Mason Library, second floor.

The Film Studies Center, located in the basement of Parker Hall, contains a large collection of laser disks, videotapes, and DVDs for study purposes. The equipment facilities include Steenbeck and Moviola film editing benches as well as Avid digital, nonlinear editing systems. The Department of Film Studies also has screening facilities in Drenan Auditorium (also in Parker Hall) for 8mm, 16mm, and 35mm film prints as well as DVD, laser disk, and video. Also part of the film department is the KSC Film Society, located in the Putnam Arts Lecture Hall in the Redfern Arts Center on Brickyard Pond. The KSC Film Society, equipped with 35mm, 16mm, and 70mm projection capacity and Dolby Digital sound, runs a year-round, weekly film series.

The Information Technology Group (IT Group) provides a wide variety of computing resources for members of the Keene State College community. Students use information technology to complete the requirements of their coursework, to access class lectures and syllabi, to carry out research, and to communicate via e-mail. All students are provided with an e-mail account, student portal access to academic and personal services, HelpDesk support, LAN/WAN and Internet access, and access to computing facilities. On-campus student residents are provided with telephone, data network, and cable TV access in addition to the services listed above.

The IT Group HelpDesk provides technical support and training for students, faculty, and staff. The HelpDesk staff assist students in setting up network access (wired and wireless), configuring and using MyKSC and telephone/voicemail services, and providing media service and cable service support. The IT Group provides on-site support for specific technical situations and provides some assistance for software and network issues via the telephone.

Along with technical support provided at the HelpDesk, the IT Group is responsible for the College’s computing systems and the network and telecommunications infrastructure. IT supports the effective use of technology facilities by the campus community and the incorporation of computing and information technology into College activities. The IT Group supports technology-enabled classrooms and public and discipline computing labs on campus. The discipline labs offer specialized technology applications to majors within specific disciplines, and the public labs provide tools such as Microsoft Office 2000, multimedia stations, digital scanners, and CD burners. The public computing labs provide over 90 hours per week of open access and are open to all KSC students. Each building on the Keene State campus is connected to a fiber network backbone that provides fast Internet access, allowing students, faculty, and staff the ability to connect quickly and efficiently. Many of our “public spaces” across campus include wireless access to the network. Students with laptops and wireless network cards can enjoy Internet access throughout these building spaces. All residence facilities are wired for “port per pillow” Internet connections.

The Language Learning Center, Quadside, is a state-of-the-art multimedia learning environment. As well as being a unique instructional/presentation facility, the learner-centered computer workstations enable the students to access local, campus-networked, and global resources. They incorporate distributed media sources, such as satellite transmissions and video conferencing, with sites around the world. Language students prepare for study abroad in this authentic interactive immersion experience, which brings the world to our campus. Quadside is located on the ground floor of Morrison Hall.
The Wallace E. Mason Library provides prompt information services and active instruction on research skills and the use of library resources. Our holdings number more than 180,000 titles (300,000 items) – with subscriptions to more than 1,000 periodicals, newspapers, and serials – and an extensive selection of videos, DVDs, and music CDs. The Cohen Center for Holocaust Studies, Curriculum Materials Library, Orang Asli Archives, and other collections are located within the building.

Online database providers such as EBSCOhost, FirstSearch, and JSTOR offer the full texts of additional journals and newspapers. Off-campus access to these services is provided to patrons with a library-validated KSC student or faculty ID. The library provides electronic access, including interlibrary loan services, to the holdings of more than 41,000 libraries worldwide through an international library network. Numerous links to web resources can be found on the Library web pages.

The holdings of Mason Library and the Keene Public Library are listed in an online catalogue called Keene-Link, which can be accessed at our web site, www.keene.edu/library. The Library provides wired and wireless access to the College network throughout the building, with a limited number of wireless laptop computers for in-house use by students. For the Circulation desk, call 603-358-2711; for Reference, call 603-358-2710.

The Office of Multicultural Student Affairs (OMSA) serves Keene State students of color from the time of their KSC application all the way to graduation. The office offers various programs and services that support students to succeed in their classes and community life. Among these programs are the Faculty Mentor Program, Peer Mentor Program, Multicultural History Awareness Program, Multicultural Resource Library, and Common Ground Multicultural Club.

OMSA staff work with students to find academic support, campus leadership opportunities, and the rewarding college experience they deserve. Staff also advocate on behalf of student interests and concerns, support individual and student group initiatives, counsel students on social and academic issues, plan programs and workshops, and are available for consultation on issues related to diversity and multiculturalism.

All students are invited to visit our office on the second floor of the Student Center. For more information, visit our web site at www.keene.edu/msa or call 358-2609.

The OSHA Training Institute Education Center is operated in a cooperative effort of the Occupational Safety and Health Administration (OSHA) and the Division of Continuing Education to meet the occupational safety and health needs of New England’s business and industrial communities. OSHA courses take place at the Keene State College Safety Center in Manchester, N.H., and other sites throughout New England. These courses are short-term, presenting technical occupational safety and health training with an explanation of OSHA standards, policies, and procedures.

The Small Business Institute (SBI) provides a field-based opportunity for students to work in teams as consultants to local small businesses. Senior management students assist companies with specific needs, including business planning and development, market research, competition analysis, financial management, production, and human resources management. Each student team completes a comprehensive case study that is presented to the business owner at the end of the semester. Students must have strong records of academic accomplishment and must receive support of management department faculty to participate in the program.

The Small Business Institute Directors Association conducts the annual case competition, which was formerly conducted by the U.S. Small Business Administration. The Keene State College program has merited 36 district and regional awards, including the 1997 and 2002 national championships. Thirteen have become national finalists since 1988, an institutional record of distinction exceeding all other SBI colleges and universities.
Undergraduate Admission

Keene State College accepts applications from prospective freshmen and transfer students for both the Fall and Spring semesters.

Students should present average or better academic and personal credentials. A rolling admissions policy affords applicants prompt decisions on their applications.

First-year traditional students are encouraged to submit their first marking period grades with their application in the fall of their senior year in high school. Deadlines for first-year applicants are April 1 for the Fall semester and December 1 for the Spring semester. Transfer applicants are urged to apply and complete their credentials by April 1 for Fall admission and by December 1 for Spring admission. The College reserves the right to close admissions, irrespective of these deadlines, once class capacity has been reached.

All students who want to be considered for financial aid are encouraged to file the appropriate materials by March 1, regardless of the status of their application in admissions. Contact the Office of Student Financial Services for more information.

Applicants are required to pay a nonrefundable enrollment services fee by May 1 for the Fall semester and by December 15 for the Spring semester, to confirm their intention to accept admission. After these dates, fees are accepted on a space-available basis.

Matriculated Student

A matriculated student is one who has applied formally to the Admissions Office and has been accepted for admittance to the College. This acceptance implies admission as a degree-seeking candidate; however, it does not guarantee acceptance into a specific major. All other students attending Keene State College shall be considered nonmatriculated.

Admission Requirements

The following requirements apply to all undergraduate programs except the associate in science technology programs. Although personal interviews are not required, all applicants are encouraged to visit the campus. Tours and interviews are available by appointments arranged through the Admissions Office. Prospective first-year students should provide:

1. An application accompanied by the application fee.

2. An official high-school transcript and evidence of high-school graduation, or a satisfactory high-school equivalency certificate. Although no prescribed pattern of high-school courses is required, applicants should have completed college preparatory course work insuring competency in English grammar and composition skills, college-level reading speed and comprehension, and a distribution of courses in:
   - the humanities – English literature, a modern language, history, and philosophy
   - the social sciences – political science, sociology, anthropology, psychology, economics, and geography
   - the sciences – three are required, one of which must be a lab science, i.e., biology, chemistry, or physics
   - mathematics – Algebra I, Algebra II, and Geometry

The above courses are considered basic preparation for admission to Keene State College.

3. Scores from the College Entrance Examination Board Scholastic Aptitude Test (SAT). Applicants are responsible for making arrangements to take this test and for having the results forwarded to Keene State College.
Information as to time, place, and fees may be obtained from any guidance counselor, or by writing the College Entrance Examination Board, P.O. Box 592, Princeton, NJ 08541, or P.O. Box 1035, Berkeley, CA 94701. Applicants who have been out of high school for more than one year are not required to submit SAT results, but may be requested to do so in special circumstances.

4. Recommendation from the high school guidance counselor, teacher, or school administrator. Applicants who have been out of high school for more than one year need to submit a letter of recommendation. Questions regarding this requirement should be addressed to the Director of Admissions.

Art Candidates. All applicants interested in the Bachelor of Arts degree in Studio Art and/or Graphic Design must submit a portfolio with the admissions application. This portfolio should be in the form of slides, CD-ROM, or Zip disk. Please send between 10 and 20 examples of your work. Portfolios will be reviewed only after the student is admitted to Keene State College. Tours of the Art Department are available upon request; call 603-358-2162. Admission to the College does not guarantee admission into the Art program.

Music Candidates. All applicants interested in the Bachelor of Music degree in either Performance or Music Education must participate in an audition. Applicants interested in minoring in Music must also audition. For more information or to schedule an audition, please contact the Music Department at 603-358-2177. Admission into the Music program does not guarantee admission to the College; conversely, nonadmission to the Music program does not mean that one is not admissible to the College.

Associate in Science Degree Applicants. Applicants for the associate in science programs in Technology are not required to take the Scholastic Aptitude Test (SAT). However, they must submit an application with the application fee, an official high-school transcript, evidence of high-school graduation or a satisfactory equivalency certificate, and (unless the student has been out of school for several years) a recommendation from the high-school guidance counselor or principal. High-school algebra is required, trigonometry is strongly recommended, and a sound background in English grammar and composition is expected.

Home-Schooled Students. Home-schooled students seeking admission to Keene State must submit a completed application, an admission essay, SAT or ACT scores, one or more letters of recommendation, an outline of academic studies (may include reading lists, course syllabi, writing samples, and a work portfolio), and a GED or Home School Diploma, if available.

Advanced Placement
A student may be granted advanced placement and/or credit by Keene State College by achieving a score of 3, 4, or 5 on an Advanced Placement Test administered by the Educational Testing Service (ETS).

A student who has completed one or more Advanced Placement courses should request the Educational Testing Service (ETS) to send an official Advanced Placement Examination Grade Report to Keene State College, typically as part of the application for admission process. The amount of credit granted for the examination is similar to the amount of credit associated with the Keene State College course that the examination replaces. A student may be required to complete the course substitution process to apply credit granted through Advanced Placement toward a specific requirement in a major.

Readmission Requirements
Matriculated students who have voluntarily withdrawn from the College, or have been separated from the College due to academic or disciplinary suspension, must apply for readmission. Students on an official leave of absence do not need to request readmission.

Students seeking readmission will be subject to the catalog requirements and academic standards for the academic year they are readmitted to the College. The Admissions Office will provide advisement for students on the correct procedures for Readmission.

Criteria for Readmission. Admissions will consider academic, financial, and personal criteria prior to granting or denying readmission. Students who left the College in good personal and academic standing, and have not jeopardized their status during their absence, should not experience difficulty in being readmitted.

For students attempting to return after academic suspension, the following minimum criteria form the basis for a decision on readmission, but do not imply that readmission is automatic:
1. Have completed at least two courses (six credits) with a minimum grade of C in each course, and a minimum cumulative average of 2.00 in liberal arts courses since separation.

2. Have no outstanding financial obligation to the College at the time of application for readmission.

3. Be able to provide evidence of personal responsibility as a student at Keene State College and the community at large.

4. If under a 2.00, the student must provide an academic plan for success as part of the readmission process.

Two academic options – the New Start Program and the Continuation Program – are available to students who seek readmission. Upon request, the Admissions Office will assist students in deciding which option to pursue.

New Start Program

After a break of at least one full academic semester, a student who is not in good academic standing (see Academic Standing) may seek readmission to the College under the New Start Program. Students readmitted under the New Start Program essentially discard their previous cumulative averages. All courses and grades will be retained on the permanent transcript, but records will carry forward only credits, not grades, from previous course work that received a “C” or better.

No minimum grade point average is required for readmission under the New Start Program. Grades earned at Keene State College prior to matriculation are not included in the computation of the student’s cumulative grade point average. Once readmitted, a student must achieve the minimum grade point average appropriate to his/her current standing, as determined by the total number of credits earned.

A student may elect the New Start Program only one time, and must do so at the time of application for readmission.

A nonmatriculated, continuing education student who has completed course work at Keene State College may elect to be admitted under the New Start Program.

Continuation Program

Students readmitted under the Continuation Program begin where they left off in terms of cumulative averages earned during previous academic work at Keene State.

In an effort to raise their cumulative averages, students may elect to use the “forgiveness policy,” which allows them to repeat courses once in which grades of CD or less were received. Only the last grade received will be used in calculating the cumulative average. If a student repeats courses at another college or university, that institution must be regionally accredited, and the student must earn a grade of C or higher in the course(s) to be transferred. Keene State College will accept only the credit earned, not the grade. The original grade earned at Keene State will remain on the permanent transcript, but will not be included in the calculation of the cumulative grade point average. The student is responsible for reviewing, in advance, the content of any course to be repeated at another institution to determine whether the course is acceptable as equal under the forgiveness policy. The appropriate discipline coordinator should be consulted to assist in the determination of course equivalency.

Transfer Students

Transfer students submit the same credentials as entering freshmen. In addition, they must provide official transcripts of all previous college study and a letter of reference from an employer or college faculty member or administrator. These must be sent by each institution attended, regardless of whether or not transfer credit is being sought. International transfers should refer to the section on International Students below.

The College encourages the competent student who has valid reasons for wishing to transfer, but cannot encourage the applicant with a history of academic or disciplinary difficulty. Grades earned at other institutions are not included in the computation of the student’s grade point average at Keene State. It should also be noted that admission into the College does not guarantee acceptance into a given major or specialization.

Transfer of Credit

To receive an undergraduate degree from Keene State, students must attain matriculated status before starting their final thirty credit hours of work toward a degree. The Vice President for Academic Affairs is responsible for determining the acceptability of all transfer credits.

Shortly after admission to the College, transfer students will receive an official transfer credit evaluation from the Elliot Center. Students should bring this evaluation to any orientation program or when meeting with an
academic advisor. Credits accepted in transfer may be allocated to General Education requirements or electives. The faculty of each discipline will determine through course substitution which of the transferred courses will fulfill major or minor requirements. Please refer to the degree requirement section of the Catalog for major-specific information. Developmental or remedial coursework is not transferable.

Students should direct requests for the transfer of credits through the Elliot Center in the following categories:

1. Credits received at a regionally accredited institution of higher education, if completed with a grade of C or higher.
2. Credits received at institutions accredited by an association listed in the Directory of the Council of Post-secondary Accreditation, if completed with a grade of C or higher and if documented by the catalog and course descriptions.
3. Credits recommended at the upper division by the American Council on Education for an educational experience in the armed services. Up to 15 credit hours earned through approved DANTES Subject Standardized Tests (DSSTs) or certain other correspondence study courses may be accepted. Guidelines for the evaluation of military credit are available from the Elliot Center.
4. Credits earned at the above institutions in courses graded by Pass/Fail or Credit/Non-Credit, if evidence is presented showing that the courses were completed with the appropriate level of academic achievement.
5. Students who wish to transfer credits into a teacher certification option must apply through the chair of the Department of Education. Ordinarily, no more than four credits from another institution may be applied to satisfy program requirements due to the uniqueness of ESEC courses.

Credits earned at institutions that are nonaccredited or are candidates for accreditation generally will not be accepted in transfer. However, students may petition to have these credits accepted. If possible, the student must provide a copy of the textbook(s), the course syllabus, and any other material as requested.

International Students

Keene State College welcomes well-qualified students from outside the United States. Students from more than 20 countries are currently enrolled, helping enrich the educational opportunities of all.

Most international students enter Keene State with some academic credit from their home institutions. Transfer credit – including final years of secondary schooling – may be granted after a determination of the type of institution involved and its recognition by the educational authorities in the home country, and an evaluation of the content, level, and comparability of the study to courses and programs at Keene State.

A complete application for an international student requires the following:

1. A completed Admissions Application form.
2. Official copies of secondary and post-secondary academic records with official English translations, when necessary, including:
   - Transcripts/mark sheets/grade reports of all course works completed with grades or marks for each course indicated.
   - A course-by-course evaluation of international educational credentials completed by a member of the National Association of Credential Evaluation Services, Inc. A list is available from the Office of National and International Exchange, 603-358-2348.
3. International students living in the United States for two or more years attending high school must take the SAT.
4. Proof of English proficiency or agreement to enter our full-time fall semester intensive English as a Second Language (ESL) Program. Proof of English proficiency can be established by on-campus interviews, transcripts from English-language schools, or successful completion of the Test of English as a Foreign Language (TOEFL) with total scores of 500 or above for undergraduates. TOEFL information is available at American embassies and consulates, offices of the U.S. International Communications Agency, U.S. education commissions, foundations, and binational centers, or by writing to TOEFL, Box 899, Princeton, NJ 08541. Keene State College provides conditional admission for students needing ESL prior to entering a degree program.
5. Documentation of financial support. Applicants must complete the Certification of Financial Support in the application as well as submit documentation that funds are available. A demonstrated level of support, not only for tuition and room and board, but also for living expenses (pocket money, books, etc.) is necessary. The Declaration of Finances form is available from the Admissions Office, the Office of National and Interna-
Continuing Education and Extended Studies

The Division of Continuing Education and Extended Studies provides educational opportunities for students returning to college, seeking professional development, preparing to enter a degree program, or taking courses for personal enhancement. Opportunities are available on a part-time basis through credit and noncredit courses, certificate programs, seminars, institutes, conferences, and workshops. Courses can be taken during the day or evening, and many are offered on weekends. The Division also works closely with business and industry to provide customized education and training on a contractual basis.

Students who enroll in courses offered for credit by this Division can select courses that will maximize their efforts toward an educational goal, whether they are working toward an associate’s, bachelor’s, or master’s degree, or pursuing specific career goals. An individual may enroll as a part-time, nonmatriculated student and later apply for admission to a degree program. Students who enroll in part-time credit courses are responsible for satisfying all course prerequisites, even though they are not matriculated in a degree program. Academic policy states that Continuing Education students will follow the academic schedule and policies required of all Keene State students. Credits earned may be transferred later either to a Keene State College degree program or to other institutions.

Three Summer School terms are offered by the Division with a comprehensive schedule of undergraduate, graduate, and noncredit courses. These courses fulfill many major and general education requirements and provide a variety of special topic courses for professional development and elective purposes.

Specific information concerning Continuing Education offerings and registration procedures is found in the Continuing Education schedule of courses, Discovery, published each fall, spring, and summer.

Summer Link

Link, “the college connection,” is a comprehensive college experience for both recent high school graduates and nontraditional students who may have been out of school for a number of years. The goal is to develop self-sufficient students ready for the opportunities, responsibilities, and academic expectations of college. The program strengthens academic competencies and study skills and increases self-confidence. The program runs for six weeks and students earn seven college credits.

Upward Bound

Upward Bound is a college preparatory program designed to generate among able young people from low-income backgrounds the skills and motivation necessary for success in education beyond high school. Funded by the U.S. Department of Education, the Keene State College program serves 70 students from 10 high schools within a 50-mile radius of the campus. The heart of the program is a unique six-week summer residential program. Staff, consisting of teachers and tutor-counselors, are drawn from participating high schools, Keene State College, other colleges and universities, and the community. Upon completion of the summer program, students return to their respective high schools and are then active in the academic year follow-up program. Their participation in Upward Bound may continue throughout their high school years.

In the summer, courses are available in modern languages, reading, literature, expository writing, algebra through calculus, computer science, social issues, performing arts, biology, and PSAT preparation. Electives are offered in a variety of interest areas, including the arts, social sciences, and physical activities.

Upward Bound also provides unique opportunities for Keene State College students, who may apply to be on the staff. The program employs students interested in education and psychology. Some Keene State students
have earned independent study credits in psychology as a result of their staff involvement.

New England Regional Student Program

Keene State College participates in a regional cooperative program, administered by the New England Board of Higher Education, which permits qualified, matriculated New England residents to study with reduced tuition and admission privileges in certain programs at other state colleges and universities. This program expands higher education opportunities for New Englanders by making available to all residents on an equal basis majors/courses not commonly offered at every institution, thus reducing duplication of programs and utilizing more efficiently the higher education facilities of each state. The programs that qualify for the 2005-06 academic year for Rhode Island and Vermont residents are the associate’s degree program in technology studies (drafting & design) and the bachelor’s degree program in American studies and technology studies. Also available to residents of Vermont is the bachelor’s degree program in chemistry/physics. Information about this program may be obtained from the Admissions Office, the Elliot Center, high school guidance counselors, or the New England Board of Higher Education, 45 Temple Place, Boston, MA 02111, 617-357-9620.

New Hampshire College and University Council

Keene State College is a member of the New Hampshire College and University Council, a consortium of thirteen institutions of higher education formed to combine resources to make more educational opportunities available for students at a lower cost. Students from member institutions may register for courses at member colleges participating in the student exchange and receive transfer credits. Arrangements for registration for such courses is made through the Elliot Center. Some advantages of the Council include the ability to draw on the million-volume library resources of the thirteen member institutions, and access to the computer network and to workshops, seminars, and cultural festivals in a variety of fields.

In addition to Keene State College, Council members participating in the student exchange program include Colby-Sawyer College, College for Lifelong Learning, Daniel Webster College, Franklin Pierce College, New England College, Plymouth State University, Rivier College, Southern New Hampshire University, St. Anselm College, and the University of New Hampshire (including its branch at Manchester).

The Council’s policies on student exchange and enrollment among member institutions are as follows:

**Full Semester Enrollment.** Students who wish to do extensive work at another institution within the Council shall be permitted to do so. Admission may be for a full semester or more, with concurrence of the cooperating institution. Students must have a minimum grade point average of 2.5 to participate.

The student shall remain registered at the home (sending) institution and continue to pay to it the normal home college charges for tuition and fees. Determination of room and board charges will be by individual arrangement between the student and the receiving institution; the receiving institution will bill these charges directly to the student involved.

The sending institution cannot guarantee room and board at the receiving institution.

**Course Enrollment.** Ad hoc enrollment by students at other Council institutions for one or more courses during the academic year shall be permitted. Normally such courses, in addition to on-campus courses, should not exceed a full course load, as defined by the policies of the student’s home (sending) institution.

No financial charges shall be made, other than laboratory fees or fees for special instruction, which shall be billed to the student by the receiving institution.

**Home College Approval.** In order to receive academic credit for courses taken in another Council institution, all inquiries regarding the above study opportunities must be directed to the Elliot Center.
Student Financial Services

Student Financial Services consists of the Bursar’s office (student accounts) and Financial Aid. Students may make payments, complete financial aid requests, and receive information about financial aid and billing statements from both Student Financial Services windows. This one-stop design is intended to reduce the number of visits students need to make to financial services and the length of time students must spend completing these important functions.

Tuition and Fees

Fees
All students attending Keene State College are responsible for payment of all charges incurred while they are enrolled. Charges may include, but are not limited to:

Mandatory Fees. Students enrolled for credit will be charged mandatory fees, which include a Registration Fee, Student Center Fee, Activity Fee, Educational and Technical Fee, Athletics and Recreational Sports Fees, Health and Counseling Services Fees, and Class Dues. The income derived from Mandatory Fees is used to offer and enhance support services to students, and to partially cover the cost of supplies and lab equipment required for successful educational experiences. All students are required to pay mandatory fees whether or not classes they participate in are held on the KSC campus.

Application Fees. Charged to all students who are seeking admission to the college and/or special programs offered on-campus, such as the Graduate Program or the Teacher Education Certification Program.

Enrollment Services Fee. A one-time fee charged to first-time, readmitted, graduate, and certificate students. This fee covers administrative and technical costs for new students. No student can be admitted until the fee is paid.

Residence Hall Charge. Charged to students living in on-campus housing only. Rates vary based on the type and location of the room.

Dining. Charged to students who participate in meal plans offered on campus. Currently KSC offers several plans, including 19, 12, and 5 meals per week. All students living in college housing (with the exception of Bushnell, Tisdale, and Pondside apartments) are required to participate in a meal plan.

Room Damage Deposit. Charged to all students living in on-campus housing to cover the cost of damage that may result. The unused portion of the deposit will be refunded only after the student moves out of the residence halls.

Late Payment Fee. Charged monthly to students whose payments are not received by the published due date.

Late Add/Withdrawal. Charged to students who do not complete the add/withdrawal process within the published timelines.

Applied Music Fee. Charged to students enrolled in specific classes that offer one-on-one instruction. This fee is in addition to any tuition paid for credit hours.

Parking Fees. Charged to students who register a car and receive a permit to park in an on-campus lot.

Returned Check Fine. Charged to all persons who issue a check that, for any reason, is returned from the bank unpaid.

Senior Class Dues. Charged to students during the year they will complete their degree requirements. Offsets the cost of Senior Activities. It is possible that students will be asked to pay an additional fee to the Senior Class depending on the type and cost of activities planned.
Graduation Fee. Charged to students for each degree for which an Intent to Graduate form has been filed.

Transcript Charge. Charged to students requesting copies of their official transcript.

Note: Each student is responsible for the timely payment of all outstanding charges on his or her account. Failure to remit payment in full by the stated due date may result in deregistration of courses. Payment of the bill is solely the responsibility of the student, regardless of who (e.g., a parent) remits the actual funds.

Determination of Tuition Rates

Residence Policy. All students attending any division of the University System of New Hampshire in any capacity are charged tuition at a rate determined by domicile. Those domiciled within the State of New Hampshire pay the in-state rate, whereas those domiciled elsewhere pay the out-of-state rate.

In-State. The Board of Trustees fixes the in-state tuition rate annually on the basis of the projected budget, including as part of the budget the applicable funds made available by the Legislature in its biennial budget.

Out-of-State. In accordance with the policy established by the Legislative Budget Act, the out-of-state tuition rate is set annually by the Board of Trustees at a figure that reflects actual per capita operating costs, including instructional expenses, overhead, and bond retirement (excluding self-liquidating bonds), as determined by the costs in the fiscal year just preceding the first January for the fiscal year in which tuition is to be charged, all in accordance with the established accounting practices of the University System Student Status.

For tuition purposes, a student is classified as in-state or out-of-state at the time of his/her admission to a unit of the University System of New Hampshire. This decision is made by the Director of Admissions based upon information furnished by the student’s application and other relevant and available information.

Each applicant for in-state status for tuition purposes submits an application on forms prescribed by the Director of Admissions, which shall include a sworn statement certifying that the applicant is legally domiciled within the State of New Hampshire. The application shall also include such additional information as the Director may require in support of the affidavit of domicile. At his/her discretion, the Director may require submission of an application form from any in-state student prior to the commencement of each semester the student plans to attend the College.

Review of Student Status. Any student aggrieved by the decision of the Director of Admissions classifying him/her as an out-of-state student for tuition purposes may appeal to the Appeals Committee on forms and in accordance with procedures made available by the Director of Admissions. The student has the right to present to the Appeals Committee such additional evidence as he/she deems appropriate in processing the appeal, and the right to appear in person and be heard.

The decision of the Appeals Committee shall be final unless the Board of Trustees in its discretion elects to review the record before the Committee. No evidence may be adduced or presented before the full Board of Trustees, but reviews shall be of the record only.

Change in Status. Any student who has on first admission to the University System been classified as out-of-state for tuition purposes may apply to the Budget Coordinator for a change of status on or before September 1 of any year for the Fall semester, and on or before January 1 of any year for the Spring semester. Applications are considered in the chronological order in which they are presented.

No changes approved during a semester shall be effective until the beginning of the next semester. However, where a change of status from out-of-state to in-state has been denied by the Budget Coordinator prior to the beginning of a semester, and the decision is reversed by the Appeals Committee, the student’s status shall become effective from the beginning of that semester.

In the event the Budget Coordinator possesses facts or information indicating that a student’s status should be changed from in-state to out-of-state, the student shall be informed in writing of the change of status. The student may appeal the decision to the Budget Coordinator as herein above set forth. No such change made by the Budget Coordinator after the commencement of any semester is effective until the beginning of the following semester. Change to out-of-state status made by the Budget Coordinator prior to the commencement of any semester, but reversed during the semester by the Board of Appeals, is effective as of the beginning of that semester.

Substantive Rules and Definitions

In all cases of application for in-state status for tuition purposes, the burden of proof is on the applicant. At the
applicant’s request, the Director of Admissions states in writing the reason or reasons for his/her decision.

The following definitions and rules prevail, as approved by the University System of New Hampshire Trustees on January 20, 1973, and revised on April 28, 1984.

**Parent.** The term “parent” means a person’s father; or, if he/she has no father, his/her mother; or, in the case of separated or divorced parents, “parent” means either a parent with legal custody or a parent providing more than one-half of a student’s total financial support; or, if there is a guardian or legal custodian, “parent” means guardian or legal custodian, provided there are no circumstances indicating that such guardianship or custodianship was created primarily for the purpose of conferring the status of an in-state student on an unemancipated person.

**Domicile.** “Domicile” denotes a person’s true, fixed, and permanent home and place of habitation. It is the place where the person intends to remain and to which he/she expects to return when he/she leaves without intending to establish a new domicile elsewhere.

No person is eligible for in-state status unless he/she is domiciled within New Hampshire. For University System purposes, a person does not acquire domicile in New Hampshire until he/she has been a resident of the state for twelve consecutive months immediately preceding registration for the term for which in-state tuition status is claimed and meets all other requirements for domicile.

No unemancipated person is eligible for in-state status unless his/her parent has established domicile in New Hampshire.

No person is eligible for in-state tuition status unless he/she establishes that his/her residence in New Hampshire is for some purpose other than the temporary or primary one of obtaining an education.

When a person has established eligibility for in-state tuition based on his/her parent’s domicile, and the parent subsequently establishes domicile outside of New Hampshire, the person is eligible for in-state tuition for one academic semester following the academic semester during which the parent established out-of-state domicile.

All evidence relevant to determining domicile may be considered, but the following indicia are, in any case, relevant, without limiting in any way other information the applicant wishes to submit or the Director wishes to require:

- Payment or nonpayment of any tax levied by the state or any political subdivision on persons resident or domiciled therein.
- Residence reported on any federal or state tax return.
- Registration of one’s automobile.
- State issuing one’s driver’s license.
- Receipt of support in whole or in part from parents who are resident or domiciled outside the State of New Hampshire.
- Voting residence.
- Claim by any nonresident parent that the applicant is dependent for tax or any other financial purpose.
- Regular departure by the applicant from the State of New Hampshire during recesses or vacations from the College.
- The filing of any claim for benefits under any policy of insurance of any federal, state, or local benefit legislation based on residence or domicile outside the State of New Hampshire.
- Status in some other state that qualifies a person for in-state tuition in that state.

**Emancipation.** No person is deemed emancipated unless his/her parent has entirely surrendered the right to the care, custody, and earnings of such person and unless his/her parent is no longer under any legal obligation to support or maintain such person or, having supported and maintained such person even though under no legal obligation to do so, has ceased to support or maintain such person. Emancipation shall not be found unless all such tests are met.

The following shall be submitted by an applicant upon request by the Director of Admissions:

- Lack of financial support of the person by the parents.
- Lack of contribution to the parents of any earnings or other income received by the person.
- Failure of the parent to claim the person as a dependent on his/her income or other tax returns.
- Establishment by the person of a domicile separate and apart from that of the parent.
- Failure of the person to return to the home of the parent during vacations and other recesses from school.
Presumptions. Unless the contrary appears to the satisfaction of the Director of Admissions in individual cases, the following presumptions prevail:

- The domicile of an unemancipated person is that of his/her parents or, if the parents are separated or divorced, that of the parent who has custody of him/her, or that of the parent providing more than one-half of the student’s total financial support.
- The domicile of an unemancipated person who has no parents is that of his/her guardian or other legal custodian, unless it appears that such guardianship or custodianship was created for the purpose of establishing in-state status.
- The domicile of any person who first enters the College from the domicile of his/her parent, as defined above, is that of the parent until he/she abandons such domicile and, for purposes other than that of education, acquires a new domicile.
- The domicile of any person who first enters the College from a domicile other than New Hampshire is such a domicile until he/she abandons such domicile and, for purposes other than that of his/her education, acquires a new domicile.
- Attendance at a unit of the University System or at any other educational institution in this state in itself is not evidence of intention to establish or establishment of a domicile in this state.

Military Personnel. A member of the armed forces of the United States stationed in this state under military orders is entitled to classification for himself/herself, spouse, and dependent children as in-state for tuition purposes so long as he/she remains on active duty in this State pursuant to such orders.

Waiver. Nothing contained in these rules precludes the Director of Admissions from waiving any requirement hereof under special circumstances in individual cases.

Cost Estimates

Tuition and fees are established during each summer by the Board of Trustees of the University System of New Hampshire and may be adjusted at irregular intervals. Such changes are announced as far in advance as possible. Students are encouraged to consult the current tuition and fee schedule located on the KSC web site at www.keene.edu/sfs.

In order to assist with financial planning, total expenses (tuition/room/board/mandatory fees) for full-time students for the 2004-2005 academic year was approximately $12,886 for New Hampshire residents and $19,326 for out-of-state students.

Students enrolled for less than 12 credits pay charges on a per-credit basis, depending on course level and residency.

Refund Policy

A student who withdraws from the College or changes his or her course load is eligible for refunds according to the following schedule:

<table>
<thead>
<tr>
<th>Description</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>75% within 7 calendar days beginning on the first day of the semester. 50% in 8-30 calendar days after the first day of the semester. No refund beyond 30 days after the first day of the semester.</td>
</tr>
<tr>
<td>Room</td>
<td>75% within 7 calendar days beginning on the first day of the semester. 50% in 8-30 calendar days after the first day of the semester. No refund beyond 30 days after the first day of the semester.</td>
</tr>
<tr>
<td>Board</td>
<td>Pro rata refund minus one week from the date the meal ID is turned in to the Food Service Director upon approved release from the Director of Residential Life and Dining Services.</td>
</tr>
<tr>
<td>Fees</td>
<td>No refund.</td>
</tr>
</tbody>
</table>

A student who is suspended or dismissed for disciplinary reasons forfeits his/her right to any refund.

Refund policy for Keene State College students participating in Direct Exchange Programs in International Education is as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program fee</td>
<td>75% within 7 calendar days beginning on the first day of the semester. 50% in 8-30 calendar days after the first day of the semester. No refund beyond 30 days after the first day of the semester. A nonrefundable deposit of $200 is made upon acceptance.</td>
</tr>
</tbody>
</table>
Return of Federal Title IV Financial Aid. If a student is receiving federal financial aid (Federal Pell Grant, Federal SEOG Grant, Federal Perkins Loan, Federal Stafford Student Loan, and Federal PLUS Loan and LEAPP – State Grants) and withdraws or takes a leave of absence within 60 percent of the enrollment period, a portion of the awarded federal aid must be returned according to the Higher Education Amendments of 1998.

The determination of the return of these funds is calculated by Student Financial Services normally within 10 days of the withdrawal or leave of absence date. The calculation may result in the student’s owing a balance to the College and/or the federal Title IV financial aid programs.

Sample return of Title IV funds worksheets are available for review in the Student Development Office in Elliot Hall.

Student Financial Responsibility

By enrolling in classes at Keene State College, students agree to pay all charges incurred as a result of being enrolled at Keene State College by the stated due date, including any late penalties assessed due to failure to pay. Students also agree that they are responsible for all collection costs incurred if the services of a collection agency are employed.

A student who has outstanding charges or debts due the College, or who is delinquent in scheduled loan repayments, will not receive grade reports, transcripts, placement papers, diplomas, or other services from the College; nor will that student be eligible to participate in registration or housing privileges.

Billing for Tuition, Mandatory Fees, Room and Board.
Payment in full is due the first Friday in August for the fall semester, and the second Friday in December for the spring semester. It is the sole responsibility of the student to remit payment in full prior to the tuition deadline. Any questions concerning a student’s account should be directed to the KSC Student Financial Services office prior to the payment deadline. Other billings may be mailed throughout the year and are normally due within 10 days.

Payment Plans. If financial aid awards will not cover all of a student’s charges, information about payment plans that allow for payment of KSC charges during the school year is available at Student Financial Services. The office contracts with an outside agent to service and track payment plans for a small fee.

Financial Aid

Student Financial Services (SFS) is responsible for the administration of student financial assistance and for helping students develop plans for paying for their education. Financial assistance is available in three basic forms: grants and scholarships, loans, and part-time employment. Grants and scholarships do not have to be repaid. Educational loans must be repaid (unless a student is eligible for special cancellation benefits), but such loans are made on a long-term, low-interest basis. Part-time employment is arranged at on-campus locations.

With the exception of the College’s Academic and Talent Scholarship Programs (listed below), the most important factor in determining eligibility for aid is documented financial need. All matriculated students (students admitted into a degree program) are eligible to apply for assistance, if enrolled for at least 6 credits per semester. In addition, to be considered for financial assistance, upperclass applicants must be both in good academic standing (see Academic Policies & Procedures section of this catalog) and making satisfactory progress (see KSC Financial Aid Catalog).

Keene State College complies with all federal regulations concerning disclosure of costs and eligibility criteria. Inquiries should be directed to Student Financial Services.

Application Procedures

In order for Keene State College to accurately determine financial assistance awards and eligibility, each applicant is required to file a Free Application for Federal Student Aid (FAFSA). FAFSA forms are available at high schools, or from Student Financial Services (SFS) at Keene State. Applications may also be filed via the Internet at www.fafsa.ed.gov. Please contact SFS for specific requirements. The KSC Financial Aid Catalog and Financial Aid Update are available for detailed instructions and information regarding the financial aid process.

The Financial Aid priority filing date is:

**March 1** – FAFSA must be received at the Federal processor by this date.

Students who file prior to this deadline will receive the highest consideration for aid for the following academic year. Students who file after this date will be processed after all on-time filers have been awarded, but cannot
expect to receive a substantial amount of scholarship and grant awards. Funds are limited and students who file early are always given first consideration. If you would like early notification of financial awards, it is recommended that you complete the above requirement as soon as possible after January 1. Beginning in early March, letters of notification regarding the award of financial aid are sent from SFS.

It is emphasized that application materials must be filed early each year as no award is renewed automatically. However, provided that the student applies on time and that financial need persists, applicants may expect to continue to be eligible for assistance assuming they have maintained satisfactory progress and remain in good academic standing.

Scholarships and Grants (Partial List)

Keene State has broadened its merit-based scholarship opportunities to provide greater access to higher education for high-quality students. Qualified students from the applicant pool are identified by the Admissions Office for the scholarships listed below. These scholarships are awarded on a first-come, first-served basis so students are encouraged to apply for admission early.

The categories are:

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Annual Amt.</th>
<th>SAT Score</th>
<th>HS GPA</th>
<th>No. of Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>President’s Scholarship</td>
<td>$3500</td>
<td>1100+</td>
<td>3.5+</td>
<td>20</td>
</tr>
<tr>
<td>Dean’s Scholarship</td>
<td>$2500</td>
<td>1050+</td>
<td>3.25+</td>
<td>60</td>
</tr>
<tr>
<td>KSC Enrichment</td>
<td>$2000</td>
<td>1000+</td>
<td>3.0+</td>
<td>100</td>
</tr>
</tbody>
</table>

Annual amount for incoming applicants only (effective Fall 2002).

These awards are renewable for up to four years by maintaining a required grade-point average.

The KSC Academic Talent Grants-in-Aid Program provides students with exceptional performing, artistic, or other academic talent with renewable scholarships. Recipients are selected by faculty committees within the Arts and Humanities (for theatre and music students, based on auditions, and art students based on portfolios), Sciences, and Professional Studies Divisions.

The KSC Scholarship Program is a College-funded grant program for high-need students. Eligibility is determined by the College through analysis of the Free Application for Federal Student Aid.

The Federal Pell Grant Program is a federally administered program for high-need students. Eligibility is determined by an agency of the federal government. Individual grants range from $200 up to $4050 per year. Students apply for Pell grants by means of the same Free Application for Federal Student Aid used to apply for other forms of assistance.

The Federal Supplemental Educational Opportunity Grant Program is a federally funded program that provides grants to students with financial need as defined by federal regulations, as well as with academic and creative promise. Eligibility is determined by the College through analysis of the Free Application for Federal Student Aid form.

In addition to the above, scholarships are awarded annually from current gifts and endowment funds that have been established by friends and alumni of Keene State College. There are at present 42 such funds, which provide more than $225,000 each year in scholarships to needy and worthy Keene State College students. Descriptions of the individual funds, eligibility criteria, and application procedures are found in the Financial Aid Catalog.

Students who have completed at least one year (24 credits) at Keene State College are eligible to apply for merit-based scholarships in March for the following year. Applications for these scholarships are available at Student Financial Services.

Loans

Brief descriptions of the several types of available loans follow. Further information may be found in the Financial Aid Catalog.

The KSC Loan Program is a College-funded, long-term, low-interest loan for students with need established by means of the Financial Aid Form.

The Federal Perkins Loan Program is a federal and College-funded program. Eligibility is established through the Free Application for Federal Student Aid. Loans of borrowers employed as full-time teachers in designated hardship areas or as full-time teachers of the handicapped are partially forgivable each year and may result in cancellation of the total amount of the outstanding loan within five years. Loans of borrowers on active duty in the armed services, in an area of hostilities only, are forgivable at the rate of 12.5% per annum up to 50% of the total loan principal.
The Federal Stafford Loan program allows students to borrow low-interest loans from participating banks and credit unions. Two types of Stafford Loans exist. One is subsidized and is need-based and the other is nonsubsidized and is not based on financial need. Eligibility is established through the Free Application for Federal Student Aid. The loan application process is normally started within the aid office via electronic transmission with your state guarantee agency and/or bank. The lender/guarantee agency mails preprinted/school-certified applications to the student. These mailed applications must then be completed by the student and returned to the lender/guarantee agency for these loans to be approved.

The Federal PLUS (Parent Loan for Undergraduate Students) Loan Program is available for parents of undergraduate students who need additional funding after other financial aid has been awarded. These loans are not automatically approved, but do have competitive interest rates and other terms. Our office does not award this loan program because bank approval is required. Credit history is considered by lenders approving this program. If you are interested in this program, applications are available at most banks and at the Student Financial Services Office. School certification is required. Student cost of attendance minus other aid is the maximum loan amount possible for this program.

Employment Opportunities
Funds to support the College’s Work-Study Program are provided by the federal government and the College to enable eligible students to work for an average of 6 to 12 hours per week each semester while classes are in session and up to 40 hours per week at other times. Keene State College also supports its own work program, which provides an additional 400-500 jobs per year. Jobs are offered preferentially to work-study eligible students, although many noneligible students also find employment on the campus. Students interested in exploring job possibilities should check with Student Financial Services. The average job opportunity allows a student to earn approximately $750-$1500 per semester.

In addition to on-campus job opportunities, many local employers hire students on a part-time basis. The Academic and Career Advising office in the Elliot Center maintains current listings of such vacancies.

Other Sources of Assistance
To be sure students have explored every possible source of financial assistance, we suggest the following:

- Check with high school guidance counselors about local and national scholarship competitions and citizens scholarship funds in your state of residence.
- Apply to state grant or scholarship programs in your state of residence. Most of these may be applied for by means of the same Free Application for Federal Student Aid used to apply for institutional and federal aid.
- Check with local banks regarding special trusts providing educational assistance to students.
- Check with local Veterans Administration, and/or Vocational Rehabilitation offices if you think you are eligible for these programs.
- Many lenders are offering alternative student loan programs, and some are now offering loans to dependent students without co-borrowers regardless of income. The College does not endorse or encourage any of these programs, as the terms are not as beneficial as the federal programs, but information about them is available in Student Financial Services.

Ombudsman
Higher Education amendments of 1998 have provided for the creation of a Federal Student Aid (FSA) Ombudsman appointed by the U.S. Department of Education to act on behalf of students in the resolution of Title IV federal financial aid program issues. Students with questions or issues regarding federal financial aid programs may contact this person at 877-557-2575 or via the Internet at http://fsahelp.ed.gov.
Student Life

Student Governance

**Student Government.** Students assume basic responsibility for co-curricular activities through the Student Assembly, which legislates matters of policy and finance.

Student Government consists of the Student Body representatives (President, Vice President, Student Trustee from KSC on a rotating basis), a legislative Student Assembly (representatives from each class, nontraditional students, and the Student Body president and vice president as nonvoting, ex officio members), class officers, and the Student Government Executive Board (Student Body Representatives, officers of the Student Assembly and class presidents). Members of the Student Government are elected each spring. The leadership is then elected from the membership. The Vice President for Student Affairs and the Student Government advisor also attend the meetings of the Assembly. Assembly members serve on the following Assembly committees: Student Life, Finance, and Constitution; representatives also serve on three College Senate committees: Curriculum, Academic Overview, and Academic Standards; and representatives serve on Presidential Advisory committees.

College Judicial System

Each student admitted to Keene State College is expected to honor the Statement of Student Rights and Responsibilities, uphold all policies in the Student Handbook and other College publications, and observe all laws of the city, state, and federal governments. The College expects students to behave responsibly and to be considerate of the rights and privileges of others.

Charges of misconduct or violations of College policies are addressed through the College Judicial System, which is composed of members of the College community. The College Judicial Code, which includes the policies and procedures of the Judicial System, is fully described in the Student Handbook.

Residential Life

The Office of Residential Life and Dining Services fosters a positive living and learning environment for over 2,000 residential students. Fifteen full-time professionals and 68 highly trained student staff members administer residence hall and family housing services and policies. The Residence Hall Association (RHA), whose membership is composed of representatives from each residential area, is responsible for reviewing and recommending to the Director of Residential Life policies governing the living environment in the halls. RHA also sponsors social and educational programs in the residence halls.

A listing of College housing policies, contained in the “Terms and Conditions of the Residence Hall Contract,” is provided to students when they sign their housing contracts. Regulations concerning families living in the Tisdale apartments are contained in the Family Housing Handbook. We guarantee on-campus housing only for first-year, first-time students.

The Office of Residential Life and Dining Services also maintains a listing of properties submitted by apartment managers and owners of currently available off-campus rental properties. These listings are available on the web at www.keene.edu/reslife/och_list.cfm. Keene State College makes no warranties or representations concerning these accommodations regarding health, fire, and safety conditions. The only requirement imposed by Keene State for inclusion on the list is that the accommodations be available to all prospective tenants regardless of race, sex, creed, color, national origin, handicap, or marital status.

Dining Service

The Zorn Dining Commons contains dining rooms and provides cafeteria-style service. All meals are planned and prepared under supervision of a contract food service. Resident students (except Bushnell, Tisdale,
and Pondside apartment residents) are required to select one of four meal plans – a 12- or 19-meal plan, or the flex versions of the 12- or 19-meal plan. Commuter students, Bushnell, Tisdale, and Pondside apartment residents have the option of any of the above meal plans, the 5- or 5-flex meal plan, or no plan. The flex versions of the 5-, 12-, and 19-meal plan allow students to use their ID cards as debit cards for purchases at the Student Center Food Court.

Orientation

New students and their parents are invited to an Orientation program on campus in June to become familiar with the curriculum, services, and facilities of the College. Students meet with academic advisors and register for their fall courses at that time. Transfer students are invited to come to campus during the summer to meet with advisors and register for courses.

Office of Disability Services

Services for students with disabilities are coordinated through the Office of Disability Services (ODS), located in the Elliot Center. In accordance with the Americans with Disabilities Act, the College provides equal access to courses, programs, services, jobs, activities, and facilities. It provides reasonable accommodations, academic adjustments, and/or auxiliary aids and services determined on a case-by-case basis. Depending on the nature of the disability, these accommodations may include alternative testing, note taking, texts on tape, and accessible housing and classrooms. Eligibility for accommodations is dependent on appropriate documentation, including information about the functional limitations of the disability.

Health Services

The Health Services department at Keene State College is committed to providing quality health care for our students that is rooted in a holistic model of health and wellness. Our staff, which consists of a director, three registered nurses, one full-time and two part-time nurse practitioners, a part-time physician, and a health educator, all work collaboratively to ensure that each of our students is provided with clinical as well as educational services. Our scope of services include triage of students, outpatient medical care, which may include medical assessment and treatment, lab work, health education, and referral to both on- and off-campus resources. Health Services works daily with the Counseling Center and the Office of Disability Services to ensure that we are meeting students’ needs in the most effective and efficient manner.

The student health fee enables all students to access onsite health care free of charge. All students are required to submit a completed health form at the time of admission to the college. In the event that tests, prescriptions, or off-campus referrals are necessary, the cost is the responsibility of the student and/or the student’s personal health insurance. Health Services is open Monday through Friday by appointment. For additional information regarding specific services or hours, call our office at (603) 358-2450.

Counseling Center

The KSC Counseling Center offers a full range of mental-health services with a focus on health and wellness. These services include individual counseling, couples counseling, group counseling, referral, consultation, and a 24-hour emergency, on-call counselor through the fall and spring semesters. The Counseling Center professional staff address such issues as depression, stress reduction and management, self esteem, relationships, assertiveness, communication, substance abuse, histories of physical and sexual assault, dysfunctional family environments, and eating disorders.

Students’ use of services at the Counseling Center is supported by their student fees, and there is no additional charge for any service offered. Counseling is confidential and will not be shared with parents, staff/faculty, or others, except for some very specific situations (e.g., imminent danger to self or others), which will be explained before counseling begins.

The Counseling Center also serves the College by helping plan and facilitate programs and by sharing its collections of video and printed resources with the campus community. The Critical Incident Stress Debriefing (CISD) Team is coordinated out of the Counseling Center.

The Counseling Center staff consists of six full-time professional counselors, four graduate interns, an administrative assistant, and a receptionist. Information about the Counseling Center and the current group offerings can be found at www.keene.edu/counseling. Please call 603-358-2437 to make an appointment or get more information.
Recreational Sports
KSC’s state-of-the-art recreation facility is designed to meet the fitness, sports, and social needs of the entire College community. The Recreation Center offers three courts in the recreation gymnasium for basketball, volleyball, indoor soccer, and other indoor sports; the two-level BodyWorks fitness center with separate weight training and cardiovascular fitness areas; a three-lane walking/jogging track elevated above the recreation gymnasium; two aerobic fitness studios; a fitness testing room; and two multipurpose rooms. The swimming pool and racquetball court in Spaulding Gymnasium are also available for students, faculty, and staff to use. The Recreational Sports department offers lap/recreational swimming at noon, in the evenings, and on weekends. There are also four outdoor, lighted tennis courts, a sand volleyball court, and numerous sports fields available for use by KSC community members.

Student ID cards (for full- and part-time matriculated students) are required to enter the Recreation Center to use the recreational facilities and to participate in all Recreational Sports programs. Full- and part-time matriculated students pay for access to the Recreation Center and to participate in the Recreational Sports programs through their general fees. There is no additional membership fee for full- and part-time matriculated students to use the Recreation Center.

For additional information on the Recreational Sports program and the Recreation Center, contact the Recreational Sports Office at 603-358-2814 or visit the web page, www.keene.edu/recsports/.

Intercollegiate Athletics
Intercollegiate athletics provide opportunities for students with exceptional athletic ability to represent the College in National Collegiate Athletic Association (NCAA) Division III competition. Varsity sports are listed with student organizations at the end of this section.

Student Center
The Lloyd P. Young Student Center is a focal point for co-curricular activities, offering a variety of educational, cultural, social, recreational, and leadership programs. Students are encouraged to participate in these activities and in the administration of the College through the Student Assembly.

Student Center facilities include the College Bookstore, the food court, an ATM, convenience store, student organization offices, meeting rooms, lounges, lockers, the Night Owl Cafe, and the Mabel Brown Room, where many social activities, concerts, lectures, and receptions take place.

The College Bookstore stocks all textbooks needed by students and will order other books upon request. The Bookstore also sells supplies, clothing, and gift items.

Religious Advisement
Privately supported Protestant and Catholic campus ministers are available to serve Keene State College students.

The Catholic campus minister helps provide activities that balance spirituality, community service, and social gatherings to help produce well-rounded individuals amongst the student body. The Newman Student Organization, headed by a student executive board, is open to students of all faith backgrounds. The Catholic campus minister is the director of the Newman Center. The Newman Center provides a place where students gather to form a community that reflects upon Gospel values. A direct response to this reflection is action taken to improve conditions for humankind.

The Protestant minister works with the guidance of the Campus Ministry Board of Directors, and provides counseling, worship services, and social awareness education. The minister fosters interdenominational and interfaith perspective and cooperation. There is a Campus Ministry Student Organization which supports student activities around spirituality, including retreats, worship services, action for peace and justice, and the development of an inclusive faith community on campus.
There is also an active Hillel organization on campus, as well as a synagogue in Keene. For the Catholic Campus Minister call 603-358-2100. For the Protestant Campus Minister call 603-358-2403.

Veterans Services
New students are urged to visit or contact the Registrar’s Office well in advance of their first registration to process required documentation for veterans’ benefits. Also, any changes in a student’s registration status must be reported immediately to the Registrar’s Office.

Community Service
The Office of Community Service, located in the Student Center, links students with volunteer opportunities throughout the greater Keene community. It serves as a resource center and clearinghouse for faculty in locating specific, course-related opportunities for students, and assists faculty in designing courses that incorporate service learning. The office also coordinates efforts to involve students with K-12 children in area schools and agencies.

The office regularly publishes a list of volunteer opportunities, sponsors the Student Volunteer Organization and two Community Service Fairs a year, and coordinates Alternative Spring Break trips across the country and internationally with Habitat for Humanity building projects. The College has established a Habitat for Humanity campus chapter for students, faculty, and staff volunteers who build and rehabilitate homes in the area.

The Office also cosponsors, with the Keene Kiwanis Club, a college Circle K Club that promotes and participates in community service activities throughout the Monadnock Region.

The Office of Community Service sponsors campus blood drives, national service days, and weekend service projects with local agencies, including Keene Community Kitchen, Keene Homeless Shelters, Aids Services, Cedarcrest Children’s Home, Big Brothers/Big Sisters, and Monadnock Development Services, to name a few.

Keene State College is a member of Campus Compact, a national coalition of college and university presidents committed to helping students develop the values and skills of citizenship through participation in public and community service.

Alumni Center
The Fred L. Barry Alumni Center is located in the front of Elliot Hall on the second floor, where visitors, friends, parents, and students are always welcome. The Center houses the Office of Advancement and the Office of Alumni and Parent Relations, and includes a suite of guest rooms available to visiting alumni and friends of the College.

The Keene State College Alumni Association is governed by an elected Board of Directors whose members serve three-year terms. It provides programs to foster active involvement by Keene State alumni in the life of the College. An elected representative of the Association serves on the Board of Trustees of the University System of New Hampshire.
Student Organizations

ACADEMIC CLUBS
American Society of Safety Engineers
Art Collective
Architecture Club
Biology Club
Chemistry Lyceum
Education Club
French Club
G.E.O.D.E.S.
Geography Club
History Club
Math Club
Music Educators National Conference
Physical Education Majors Club
Psychology Club
Society for the Advancement of Management
Society of Physics

COMMUNITY SERVICE CLUBS
Alternative Spring Break
Circle K Volunteer Organization
Foundation for Excellent Schools
Habitat for Humanity - Campus Chapter
KSC Reads

GREEKS
Fraternities
Phi Mu Delta
Sigma Lambda Chi
Sororities
Delta Phi Epsilon
Eta Gamma Chi
Phi Sigma Sigma
Tau Phi Xi
Co-Ed
Delta Nu Psi
Interfraternal Council
Panhellenic Council

HONOR SOCIETIES
Beta Beta Beta (Biology)
Lambda Pi Eta (Communication)
Upsilon Pi Epsilon (Computer Science)
Omicron Delta Epsilon (Economics)
Kappa Delta Pi (Education)
Sigma Tau Delta (English)
Phi Sigma Iota (Foreign Language)
Pi Delta Phi (French)
Gamma Theta Upsilon (Geography)
Phi Alpha Theta (History)
Phi Beta Delta (International Scholars)
Delta Mu Delta (Management)
Kappa Mu Epsilon (Mathematics)
Phi Epsilon Kappa (Physical Education)
Sigma Pi Sigma (Physics)
 Psi Chi (Psychology)
Rho Sigma Kappa (Safety Studies)
Alpha Kappa Delta (Sociology)
Sigma Delta Pi (Spanish)
National Society of Collegiate Scholars

RECREATIONAL CLUBS
Dance Team
Environmental Outing Club
Fitness Crew
Ski/Snowboarding Club
Tennis Club

RESIDENTIAL LIFE
Residence Hall Association

SPECIAL INTEREST CLUBS
Amnesty International
Association for Worksite Health
Campus Crusade for Christ
Campus Ecology
Campus Ministry
Check Full of Notes
Class Offices
Common Ground
Creative Arts Project
Feminist Collective
Film Society
Gay Straight Alliance
Healthy Readers Club
Hillel
International Friends
KSC Democrats
Newman Student Organization
Social Activities Council
SPLAT
Student Dietetic Association
Student Government

STUDENT PUBLICATIONS AND MEDIA
Independent Film Foundation
The Chronicle (yearbook)
The Equinox (newspaper)
KSC-TV
Literary Journal
Screenwriter’s Guild
SWKNH-FM

Intercollegiate Athletics

Men’s/Women’s Basketball
Men’s/Women’s Cross Country
Men’s/Women’s Lacrosse
Men’s/Women’s Soccer
Men’s/Women’s Swimming and Diving
Men’s/Women’s Indoor and Outdoor Track
Women’s Volleyball
Field Hockey
Softball
Baseball
Cheerleading

Recreational Sports

GROUP FITNESS CLASSES
Abs and More
Cardio-Combo
Cardio Kick Boxing
Hydrorobics
Muscle Blast
Pilates
Step Aerobics
Stretch It Out

CLUB SPORTS
Men’s/Women’s Rugby

INTRAMURAL SPORTS
Badminton
Basketball
Flag Football
Floor Hockey
Racquetball
Co-Rec Soccer
Indoor Soccer
Softball
Tennis
Three on Three Basketball
Ultimate Frisbee
Volleyball, Men’s/Women’s/Co-Rec/Sand
Whiffleball
Field Day

New clubs form each year. Not all clubs listed are active every year.
Appendix

Board of Trustees

Richard E. Ashooh
Bedford, 2004-2007

John D. Crosier
Concord, 1998-2006

Edward C. Dupont
Durham, 2003-05

George Epstein
Madison, 2002-06

Marie Gross
Bedford, 2002-06

Chester L. Jordan
Bow, 2003-07

Peter H. Lamb
Newmarket, 2003-07

John H. Lawson
Amesbury, Mass., 2000-08

Andrew E. Lietz
Rye, Chair, 2001-08

Joel W. Maiola
Bow, 2004-07

Colby R. Marques
UNH, Student Trustee, 2004-05

Lorraine Stuart Merrill
Stratham, Secretary, 1997-2005

Debra B. Miller
Londonderry, 2002-08

John H. Moody
Derry, 2003-07

Walter R. Peterson
Peterborough, 1996-2008

Reid Robinson
KSC, Student Trustee, 2004-05

Eugene A. Savage
Concord, 1999-2007

Merle W. Schotanus
Grantham, 1998-2005

Edwinna C. Vanderzanden
Rochester, 2001-05

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President: University of New Hampshire

Karol A. LaCroix
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The Honorable John H. Lynch
Governor: State of New Hampshire

Stephen J. Reno
Chancellor: University System of New Hampshire

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Stanley J. Yarosewick
President: Keene State College
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PRESIDENT
Stanley J. Yarosewick

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Vacant
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Jay V. Kahn
Student Affairs:
Corinne P. Kowpak

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John Couture (Interim)
Sciences and Social Sciences:
Gordon J. Leversee

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Ann M. Rancourt
Associate Vice President for Finance:
Karen P. House
Associate Vice President for Student Affairs:
Andrew P. Robinson

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Alumni and Parent Relations:
Michael F. Maher
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John C. Ratliff
Bookstore Manager:
Francis Brush
Bursar:
Joy Birdsey
Campus Life:
Paul A. Striffolino
Campus Purchasing and Contract Services:
James B. Draper III
Campus Safety:
Amanda G. Warman
Center for Writing:
Phyllis Benay
Chief Information Officer:
Ken McCardle
Child Development Center:
Mary W. Mayshark-Stavely (interim)
Cohen Center for Holocaust Studies:
C. Paul Vincent
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Michael J. Matros
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Candice D. Wiggum
Elliot Center:
P. Anne Miller
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Ellen Nuffer
Health Services:
Christine M. Burke (interim)
Human Resources:
Kim Harkness (interim)
Information Services and Support:
Laura J. Seraichick
Institutional Research:
Cristi L. Carson
Mail and Print Services:
Francis Brush
Mason Library:
Irene M.H. Herold
Math Center:
Eileen M. Phillips
National and International Exchange:
Marché R. Brown
Network and Telecommunications:
Vacant
Physical Plant:
Frank G. Mazzola
Redfern Arts Center:
William R. Menezes
Registrar:
Tom Richard
Residential Life:
Judith A. Raper
Small Business Development Center:
Gary Oden
Sponsored Projects and Research:
Mary-Ellen Fortini
Student Financial Services:
Patricia A. Blodgett
Teacher Education and Graduate Studies Office:
Merle S. Larracey
Thorne-Sagendorf Art Gallery:
Maureen J. Ahern
TRIO Programs:
Alan M. Glotzer
Wellness Promotion:
Christine M. Burke

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Deirdre McPartlin
Community Services:
Donald E. Hayes
Early College Awareness Program:
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Educational Programs, Aspire:
Laura K. Mielke
Educational Programs, Continuing Education:
Steven C. Kessler
Educational Programs, National/ International Education:
Marché R. Brown
Educational Programs, Upward Bound:
Elizabeth A. Zinn
Recreational Athletics:
Patrick K. Hearn
Recycling:
Mary E. Jensen
Disability Services:
Jane A. Warner
Sports Information:
Stuart E. Kaufman
Travelli-Ayling Scholarships Program:
R. Michael Haines
Faculty by Disciplines and Schools

Listed here are full-time faculty members, lecturer-contract faculty, artists-in-residence, faculty fellows, and teaching PATs. They are listed by department, under the school to which the department reports.

Arts and Humanities

The School of Arts and Humanities includes courses in art (graphic design, studio art), communication, dance, English, film studies, French, German, history, journalism, music, philosophy, Spanish, and theatre.

**ART/GRAPHIC DESIGN**
Redfern Arts Center
Butterfield Hall
Samuel Azzaro
Rosemarie T. Bernardi
Henry A. Freedman
Marsha E. Hewitt
Robert G. Kostick
Christopher Nitsche
Yuan Pan
John E. Roberts
Peter Roos

**COMMUNICATION**
Elliot Hall
Ann J. Atkinson
Joan Donnelly (PAT)
Maria B. Torres (CF)
Nigel I. Malcolm

**ENGLISH**
Parker Hall
Thomas M. Antrim
Phyllis Benay
Brinda Charry
Deborah Robin Dizard
William E. Doreski
Nona Fienberg
R. Michael Haines (CF)
Kenneth Hodges
Sally L. Joyce
Anna D. Kaladiouk
Richard M. Lebeaux
Mark C. Long
Anne-Marie Mallon
Kirsti A. Sandy
William J. Stroup
Janet Youga

**FILM**
Parker Hall
Jiwon Ahn
Lawrence M. Benaquist
Peter J. Condon (PAT)
Thomas Cook

**HISTORY**
Morrison Hall
Matthew H. Crocker
Carl R. Granquist
Gregory T. Knouff
Margaret A. Orelup
David Stowell
Andrew Wilson

**JOURNALISM**
Elliot Hall
Craig Brandon (PAT)
Rose M. Kundanis
David G. Payson Jr.
Marianne Salcetti
Mark C. Timney

**MUSIC**
Redfern Arts Center
Donald Baldini (AIR)
Joseph E. Darby
Maura J. Glennon
I. Gladys Johnsen
Carroll J. Lehman
José Manuel Lezcano
George G. Loring (AIR)
Douglas A. Nelson
Craig S. Sylvern

**PHILOSOPHY**
Parker Hall
Charles E. Hornbeck
Sander H. Lee
Andrew Wilson

**THEATRE AND DANCE**
Redfern Arts Center
Craig R. Lindsay (PAT)
Marcia Murdock (AIR)
Daniel L. Patterson
Céline Perron
Elisabeth Tobey Roos
William R. Seigh
Ronald B. Spangler

**WOMEN’S STUDIES**
Patricia Pedroza (CF)

**Interdisciplinary Studies**
Phyllis Benay

**HOLOCAUST STUDIES**
Lawrence M. Benaquist
Nona Fienberg
Helen H. Frink
R. Michael Haines (CF)
Susan Herman
Sander H. Lee
M. Therese Seibert
C. Paul Vincent
Andrew Wilson

**Library**
Wallace E. Mason Library
Margaret Barrett
Kathleen Halverson
Judith M. Hildebrandt
Robert Madden
Lois Merry
Patrick O’Brien
Peggie Partello

Associate
Vice President for Academic Affairs

WOmen’s studies
Patricia Pedroza (CF)
Professional and Graduate Studies

The School of Professional and Graduate Studies includes courses in early childhood, education, health sciences, physical education, safety, special education, and technology studies.

EDUCATION/EARLY CHILDHOOD
DEVELOPMENT
Rhodes Hall/Joslin House
Kathleen M. Ahern
Thomas Bassarear
Dorothy A. Bauer
Luz Carime Bersh
Stephen Bigaj
Deborah Black
John Couture
Prudence H. Cuper
Leonard E. Fleischer
Raymond A. Jobin (CF)
I. Gladys Johnsen
Judith Lister
Thomas J. McGuire
Ellen Nuffer
Judith Reed
Joseph F. Rousseau
Susan Theberge
Janaki Tschannerl (CF)
Steven L. Tullar
David E. White

HEALTH SCIENCE
Joslin House
Rebecca D. Brown
Sandra DiNatale
Rebecca L. Dunn
Karrie A. Kalich
Margaret A. Smith
Pamela Smith

PHYSICAL EDUCATION
Spaulding Gymnasium
Charles W. Beach
Nancy K. Bleam (Athletic Trainer)
Sherry L. Bovinet
Ronald B. Butcher
Beverly R. King
Robert Merrow (Athletic Trainer)
Linda A. Millard
Donna M. Smyth
Jeffrey M. Timmer
Scot A. Ward (Athletic Trainer)

SPECIAL EDUCATION
Rhodes Hall
Evie Gleckel
Nancy S. Lory

TECHNOLOGY, DESIGN AND SAFETY
Butterfield Hall
Vicki Farer
Wayne E. Hartz
Richard L. Foley
Larry H. McDonald
Delmar R. Ogg
Donna Paley
Charles A. Sheaff
Peter L. Temple
Melinda D. Treadwell

Sciences and Social Sciences

The School of Sciences and Social Sciences includes courses in astronomy, biology, chemistry, computer science, economics, environmental studies, geography, geology, management, mathematics, meteorology, physics, political science, psychology, and sociology.

BIOLOGY
Science Center
Kenneth D. Bergman
Karen R. Cangiulosi
Patrick M. Eggleton
Katherine Featherston (PAT)
Renate L. Gebauer
Kristen E. Porter-Utley
Douglas E. Smith (CF)
Scott J. Strong
Susan L. Whittemore
Theodore S. Zerucha

CHEMISTRY
Science Center
Colin D. Abernethy
Richard Blatchly
Jeudi L. Davis (PAT)
Jerry P. Jasinski
Sally M. Jean
Denise M. Junge

COMPUTER SCIENCE
Science Center
Suzanne M. Castriotta
Michael J. Hanrahan
Gerald P. Joyce II

ECONOMICS
Rhodes Hall
Patrick Dolenc
Marie C. Duggan
Thomas E. Duston
Robert L. Sherry

GEOPHYSICS
Science Center
Kristin Alvarez
Klaus J. Bayr
Christopher D. Cusack
Jo Beth Mullens
Albert L. Rydant

GEOLOGY
Science Center
Tim Allen
Steven Bill
Peter A. Nielsen

MANAGEMENT
Blake House
Elizabeth H. Brown
Barbara Charkey
Linda M. Hadden
Susan Herman
Stephen C. King
John Pappalardo
Neil R. Pruchansky
Robert Simoneau
Roxana Wright

MATHEMATICS
88 Winchester St.
Michael Cullinane
Vincent Ferliti
Beverly J. Ferrucci
Richard Jardine
Ockle Johnson
Karen E. Stanish
Joseph C. Witkowski

PHYSICS
Science Center
J. Russell Harkay
Frederick J. Wolf

POLITICAL SCIENCE/SOCIAL SCIENCE
Rhodes Hall
Roland L. Higgins
Michael M. Welsh
Charles F. Weed Jr.

PSYCHOLOGY
Rhodes Hall
Linda Baker
Gary Bonitatibus
Martin W. Brown
Stephen J. Clark
Karen E. Jennings
Susan Menees
Neil M. Montgomery
Anthony Scali
Homer E. Stavely Jr.
Donna M. Viveiros
Lawrence A. Welkowitz

SOCIOLOGY
Rhodes Hall
Keri Burchfield
Sarah Ghatak
Rosemary Gianno
Brian E. Green
Karen S. Honeycutt
Clinton Nichols III (CF)
M. Therese Seibert
W. James Stemp
Peter R. Stevenson
Janaki Tschannerl (CF)
Margaret M. Walsh
Principal Administrators

Yarosewicz, Stanley J., President; B.S., University of New Hampshire; M.S., Ph.D., Clarkson College of Technology (1994)

Kahn, Jay V., Vice President for Finance and Planning; B.A., Northern Illinois University; M.A., Sangamon State University; Ph.D., University of Illinois, Chicago (1988)

Kowpak, Corinne P., Vice President for Student Affairs, B.A., Hunter College, CUNY; M.Ed., Ed.D., University of Vermont (2000)

Faculty

As of January 2005. Year of appointment is in parentheses.

Abernethy, Colin D., Assistant Professor, Chemistry; B.S., University of Durham, England; Ph.D., University of New Brunswick, Canada (2005)

Ahern, Kathleen M., Instructor, ESEC; B.S., University of Massachusetts-Amherst; M.Ed., St. Joseph’s College (2000)

Ahn, Jiwon, Instructor, Film Studies; B.A., Yonsei University; M.A., Northwestern University; M.A., University of Southern California (2000)

Allen, Timothy T., Professor, Geology; B.A., Harvard University; M.S., Ph.D., Dartmouth College (1993)

Alvarez, Kristin J., Associate Professor, Geography; B.A., University of South Florida; M.Ed., Ph.D., University of Southern Mississippi (1999)

Antrim Jr., Thomas M., Associate Professor, English; B.S., Massachusetts Institute of Technology; M.A., Ph.D., University of Michigan (1968)

Archer, Christine, Assistant Professor, Wheelock School; B.S., University of Florida; M.Ed., Keene State College (1988)

Atkinson, Ann J., Assistant Professor, Communication; B.A., State University of New York at Oswego; M.S., State University of New York at Oneonta; Ph.D., University of Massachusetts, Amherst (2003)

Ayotte, Ann M., Associate Professor, Wheelock School; B.A., Elms College; M.A., American International College; C.A.G.S., University of Connecticut (1969)

Azzaro, Samuel, Professor, Art; B.S., Indiana University of Pennsylvania; M.F.A., Alfred University (1969)

Baker, Linda J., Professor, Psychology; B.A., Brandeis University; M.A., Lesley College; Ph.D., University of Massachusetts, Amherst (1995)

Barrett, Margaret A., Associate Professor/Reference Librarian; B.A., Keene State College; M.L.I.S., University of Rhode Island (1970)

Bassarear, Thomas J., Professor, Education; B.A., Claremont-McKenna College; M.A., Claremont Graduate School; Ed.D., University of Massachusetts, Amherst (1986)

Bauer, Dorothy A., Associate Professor, Early Childhood Education; B.A., Pomona College; M.Ed., Lesley College; Ed.D., University of Massachusetts, Amherst (1991)

Bayr, Klaus J., Professor, Geography; Baccalaureate, Philosophical and Theological College, Austria; M.A., Ph.D., University of Graz (1969)

Beach, Charles W., Associate Professor, Physical Education; B.S., University of New Hampshire; Ph.D., Michigan State University (1978)

Benaquist, Lawrence M., Professor, Film Studies; State University of New York at Buffalo; M.A., New Mexico Highlands University; Ph.D., Syracuse University (1969)

Benay, Phyllis, Associate Professor, Interdisciplinary Studies; B.A., Brooklyn College; M.A., New York University; M.S., University of Maine, Portland/Gorham; Ed.D., University of Massachusetts, Amherst (1997)

Bergman, Kenneth D., Professor, Biology; B.A., University of California, Berkeley; Ph.D., Harvard University (1979)

Bernardi, Rosemarie T., Associate Professor, Art; B.A., St. Mary’s University; M.F.A., University of Cincinnati (1998)

Bersh, Luz Carime, Assistant Professor, ESEC; B.A., Universidad de los Andes, Colombia; M.A., Ed.D., University of Alabama (2003)

Bigaj, Stephen J., Associate Professor, ESEC; B.A., St. Norbert College; M.A., University of Minnesota; Ph.D., University of Connecticut (1999)

Bill, Steven Dl, Associate Professor, Geology; B.S., Cleveland State; Ph.D., Case Western Reserve University (1987)

Black, Deborah J., Associate Professor, Education; B.A., University of Massachusetts, Amherst; M.Ed., Smith College; Ed.D., University of Massachusetts, Amherst (1994)

Blatchly, Richard, Associate Professor, Chemistry; B.A., Williams College; M.A., M. Phil., Ph.D., Columbia University (1991)

Bonitatibus, Gary J., Professor, Psychology; B.A., Emory University; Ph.D., Stanford University (1993)

Bovinet, Sherry L., Professor, Physical Education; B.S., Southern Illinois University; M.S., Ph.D., University of Illinois (1970)

Brown, Elizabeth H., Associate Professor, Management; B.S., Washington University; M.B.A., Ed.D., University of Massachusetts, Amherst (1988)

Brown, Martin W., Associate Professor, Psychology; B.A., Tufts University; Ph.D., University of Maine (1968)

Brown, Rebecca D., Associate Professor, Health Science; B.A., Northern Arizona University; B.S., Ed.D., Brigham Young University (1986)

Burchfield, Keri B., Assistant Professor, B.A., University of California, Santa Barbara; M.A., Florida State University (2005)

Butcher, Ronald B., Assistant Professor, Physical Education; B.Ed., Plymouth State College; M.S., Indiana University; Ed.D., Highland University (1970)
Cangialosi, Karen R., Professor, Biology; B.A., University of Maryland – Baltimore County; M.S., University of Cincinnati; Ph.D., Miami University (1992)

Castriotta, Suzanne M., Assistant Professor, Computer Science; B.S., Worcester Polytechnic Institute; M.Ed., Lesley College; Ed.D., University of Massachusetts, Amherst (1999)

Charkey, Barbara S., Professor, Management (CPA); B.A., Queens College; M.Ed., M.S., University of Massachusetts, Amherst (1988)

Cherry, Brinda, Assistant Professor, English; B.A., M.A., M.Phil., Mount Carmel College, Bangalore, India; Ph.D., Syracuse University (2005)

Clark, Stephen J., Assistant Professor, Psychology; B.S., Ph.D., Brown University (2000)

Cook, Thomas R., Associate Professor, Film Studies; B.A., Purdue University; M.F.A., University of Southern California (1994)

Craiglow, Shelley W., Assistant Professor, Wheelock School; B.S., Pennsylvania State University; M.Ed., Keene State College (1981)

Crocker, Matthew H., Associate Professor, History; B.A., Macalester College; M.A., Ph.D., University of Massachusetts-Amherst (2000)

Cullinane, Michael J., Assistant Professor, Mathematics; B.S., M.S., Ph.D., University of New Hampshire (1999)

Cuper, Prudence H., Assistant Professor, ESEC; B.S., Centenary College; M.Ed., Ph.D., North Carolina State University (2003)

Cusack, Christopher D., Associate Professor, Geography; B.A., SUNY College at Geneseo; M.A., Ph.D., University of Akron (1999)

Darby, Joseph E., Assistant Professor, Musicology; B.M., College-Conservatory of Music, University of Cincinnati; M.M., University of Illinois; Ph.D., Graduate Center, CUNY (2000)

DiNatale, Sandra M., Assistant Professor, Health Science; B.S., University of Michigan; M.S., University of Massachusetts-Ph.D., The Union Institute (1995)

Dizard, Deborah Robin, Associate Professor, English; B.A., Radcliffe College; M.A., University of Chicago; Ph.D., University of Massachusetts, Amherst (1994)

Dolenc, Patrick, Professor, Economics; B.S., Ph.D., University of Utah (1991)

Doerski, William E., Professor, English; B.A., M.A., Goddard College; M.A., Ph.D., Boston University (1982)

Duggan, Marie C., Assistant Professor, Economics; B.A., Tufts University; M.A., Ph.D., New School for Social Research (2000)

Dunn, Rebecca L., Instructor, Health Science; B.S., Keene State College; M.A., Immaculata College (2002)

Durnford, Thomas J., Professor, Modern Languages; B.A., University of Connecticut; 3e degre, Universite de Rouen; Ph.D., University of Connecticut (1975)

Duston, Thomas E., Associate Professor, Economics; B.S., University of Maine; M.A., State University of New York; Ph.D., Brown University (1984)

Eggleston, Patrick M., Professor, Biology; B.S., Michigan State University; M.S., Cornell University; Ph.D., Ohio State University (1975)

Farer, Vicki H., Lecturer - Contract Faculty, Technology, Design & Safety; B.S., M.Ed.; Keene State College

Ferlini, Vincent, Associate Professor, Mathematics; B.S., University of Notre Dame; M.S., University of Oregon; Ph.D., University of Michigan (1992)

Ferrucci, Beverly J., Professor, Mathematics; B.S., Boston University; M.Ed., Rhode Island College; Ed.D., Boston University; Ph.D. Boston College (1987)

Fleischer, Leonard E., Assistant Professor, ESEC; B.A., Metropolitan State College; M.A., University of Colorado; Ed.D., Harvard University (2001)

Foley, Richard L., Professor, Technology, Design and Safety; B.A., Brown University; M.O.E., University of New Hampshire; Ed.D., University of Massachusetts, Amherst (1980)

Freedman, Henry A., Professor, Art; B.S., Massachusetts College of Art; M.A., University of Maryland; Ph.D., Johns Hopkins University (1970)

Frink, Helen H., Professor, Modern Languages; B.A., University of New Hampshire; M.A., Ph.D., University of Chicago (1974-79, 1981)

Gebauer, Renate L., Associate Professor, Biology; B.S., Eberhard-Karls University, Germany; M.S., Christian-Albrechts University, Germany; Ph.D., University of California-Davis (1998)

Ghatak, Saran, Assistant Professor, Sociology; B.A., Presidency College, Calcutta, India, M.A., M.Phil, University of Delhi, India; Ph.D., New York University (2005)

Gianno, Rosemary, Professor, Sociology / Anthropology; B.A., City University of New York, Queens College; M.Phil., Ph.D., Yale University (1990)

Gillard, William D., Jr., Assistant Professor, Wheelock School; B.S., State University of New York, Brockport; M.S., State University of New York, Albany (1980)

Gleckel, Evie K., Professor, Special Education; B.S., Lesley College; M.A., Assumption College; Ed.D., Clark University (1993)

Glennon, Maura J., Associate Professor, Music; B.M., University of Tennessee-Martin; M.M., D.M., Florida State University (1998)

Granquist Jr., Carl R., Professor, History; B.A., Northwestern University; M.A., Ph.D., University of Wisconsin (1967)

Green, Brian E., Assistant Professor, Sociology; B.A., Pennsylvania State University; M.A., Kent State University; Ph.D., Ohio State University (2003)
Hadden, Linda M., Assistant Professor, Management; B.S., Southern New Hampshire University; M.B.A., Babson College; D.B.A., Nova Southeastern University (2003)

Haines, R. Michael, Lecturer of Travelli-Ayling Scholarship Program and Senior Contract Faculty; B.A., Hiram College; M.A., Ph.D., Ohio State University (1989)

Halverson, Kathleen, Assistant Professor, Mason Library; B.A., University of Denver; M.S.L.S., University of Kentucky (1988)

Hanrahan, Michael J., Instructor, Computer Science; B.S., Keene State College; M.B.A., Plymouth State College (2001)

Harkay, J. Russell, Professor, Physics; B.A., Rutgers University; Ph.D., University of Vermont (1980)

Hartz, Wayne E., Assistant Professor, Technology, Design & Safety; A.S., State University of New York; B.S., East Tennessee State University; M.S., Cornell University (2004)

Herman, Susan J., Professor, Management; B.A., Brandeis; M.S., Antioch New England Graduate School, Ed.D, University of Massachusetts, Amherst (1988)

Hewitt, Marsha E., Associate Professor, Graphic Design; B.A., B.F.A., M.A., University of Michigan; M.F.A., Massachusetts College of Art (1997)

Higgins, Roland L., Professor, Social Sciences; B.A., Oberlin College; M.A., Ph.D., University of Minnesota (1982)

Hildebrandt, Judith M., Associate Professor, Mason Library; B.A., Hiram College; M.S.L.S., Simmons College (1990)

Hodges, Kenneth L., Assistant Professor, English; B.A., Williams College; M.A., University of California, Berkeley; Ph.D., University of Michigan (2003)

Honeycutt, Karen S., Assistant Professor, Sociology; B.S., University of New Hampshire; M.J., University of California, Berkeley; M.A., Ph.D., University of Michigan (2002)

Hornbeck, Charles E., Associate Professor, Philosophy; B.A., Phillips University; Ph.D., Emory University (1968)


Jasinski, Jerry P., Professor, Chemistry; B.A., M.S.T., University of New Hampshire; M.N.S., Worcester Polytechnic Institute; Ph.D., University of Wyoming (1978)

Jean, Sally M., Associate Professor, Chemistry; B.A., Cedar Crest College; M.S., Ph.D., University of Connecticut (1999)

Jennings, Karen E., Assistant Professor, Psychology; B.A., Boston University; M.A., Ph.D., University of Rhode Island (2003)

Jobin, Raymond A., Instructor-Contract Faculty, ESEC; B.Ed., M.Ed., Keene State College (1966)

Johnson, I. Gladys, Professor, Music/ESEC; B.S., Minot State University; Ph.D., University of North Dakota (1993)

Johnson, Ockle E., Professor, Mathematics; B.S., Siena College; M.A., Washington Theological Union; M.A., University of Georgia; Ph.D., Brown University (1992)

Joyce, Gerald P. II, Professor, Computer Science; B.S., U.S. Naval Academy; M.S., American University; Ed.D., University of Massachusetts, Amherst (1986)

Joyce, Sally L., Professor, English; B.A., Worcester State College; M.A., Ph.D., Miami University; Ohio (1988)

Junge, Denise M., Assistant Professor, Chemistry; B.S., Hofstra University; Ph.D., University of Connecticut (2000)

Kaladiouk, Anna D., Assistant Professor, English; B.A., St. Petersburg State University; Ph.D., University of California-Davis (2001)

Kalich, Karrie A., Instructor, Health Science; B.S., Pennsylvania State University; B.S., Keene State College; M.S., Boston University (2002)

King, Beverly R., Assistant Professor, Physical Education; B.S., M.S., State University of New York, Cortland; Ed.D., Boston University (1976)

King, Stephen C., Associate Professor, Management; B.S., Indiana University; M.A., Ball State University; Ph.D., University of Kentucky (1986)

Knouff, Gregory T., Associate Professor, History; B.A., Temple University; Ph.D., Rutgers University (1998)

Kostick, Robert G., Instructor, Art/Graphic Design; A.A., Art Institute of Pittsburgh; B.A., Lesley University; M.F.A., Vermont College (2003)

Kundanis, Rose M., Professor, Journalism; B.A., University of Illinois; M.S., University of Wisconsin; Ph.D., University of Tennessee, Knoxville (1986)

Langford, Margaret S., Professor, Modern Languages; B.A., Fresno State College; Ph.D., University of Washington (1970)

Lebeaux, Richard M., Professor, English; B.A., Middlebury College; M.A.T., Harvard University; Ph.D., Boston University (1985)

Lee, Sander H., Professor, Philosophy; B.A., George Washington University; M.A., Ph.D., Georgetown University (1986)

Leeman, Carroll J., Professor, Music; B.S., Eastern Mennonite College; M.A., D.M.A., University of Iowa (1978)

Lezcano, José Manuel, Professor, Music; B.M., Peabody Conservatory of Music; M.M., University of South Carolina; Ph.D., Florida State University (1991)

Lister, Judith G., Professor, ESEC; B.A., M.A., University of New Hampshire; Ed.D., University of Massachusetts, Amherst (1985)

Long, Mark C., Associate Professor, English; B.A., Ithaca College; M.A., Ph.D., University of Washington (1998)

Lory, Nancy S., Professor, Special Education; B.A., Clark University; M.Ed., Northeastern University; Ed.D., Peabody College (1979)

Lupien, Robert J., Associate Professor, Wheelock School; B.S., University of Massachusetts, Amherst; M.Ed., Bridgewater State College; Ed.D., Vanderbilt University (1970)
Madden, Robert J., Associate Professor/Reference Librarian; B.A., M.A., Brooklyn College; M.L.S., Syracuse University (1976)

Malcolm, Nigel L, Assistant Professor, Communication; B.A., Yale University; M.A., Ph.D., University of South Florida (2005)

Mallon, Anne-Marie, Professor, English; B.A., Fordham University; M.A., Ph.D., University of Notre Dame (1985)

McDonald, Larry H., Professor, Technology, Design and Safety; B.A., M.S., Marshall University; Ed.D., University of Massachusetts, Amherst (1989)

McGuire, Thomas J., Instructor, ESEC; B.A., State University of New York; M.Ed., Keene State College (2000)

Menezes, Susan M., Associate Professor, Psychology; B.A., B.S., M.A., Ph.D., University of California, Irvine (1995)

Merry, Lois K., Assistant Professor, Mason Library; B.A., Bates College; M.L.S., University of Rhode Island (1987)

Millard, Linda G., Professor, Physical Education; B.S., State University of New York, Cortland; M.S., Northern Illinois University; M.S., D.P.E., Springfield College (1988)

Montgomery, Neil M., Professor, Psychology; B.A., M.S., Ph.D., University of Massachusetts, Amherst (1987)

Mullens, JoBeth, Associate Professor, Geography; B.S., University of Arkansas; M.S., Southern Illinois University, Carbondale; Ph.D., Oregon State University (1995)

Nelson, Douglas A., Professor, Music; B.M., M.M., Eastman School of Music, University of Rochester; C.A.G.S., Hartt School of Music, University of Hartford (1971)

Nielsen, Peter A., Professor, Geology; B.A., M.A., State University of New York, Binghamton; Ph.D., University of Alberta (1988)

Nitsche, Christopher, Assistant Professor, Art; B.F.A., M.A., Northern Illinois University, M.F.A., University of New Mexico (2002)

Nuffer, Ellen L., Associate Professor/Director, Faculty Resource Center; B.A., State University of New York, Potsdam; M.S., D.Ed., Pennsylvania State University (1993)

O'Brien, Patrick M., Associate Professor/Reference Librarian; B.A., LeMoyne College; M.L.S., State University of New York, Albany; M.A., Indiana University (1988)

Ogg, Delmar R., Professor, Technology, Design and Safety; B.S.Ed., M.S., Illinois State University; C.A.G.S., University of Connecticut; Ed.D., University of Massachusetts, Amherst (1971)

Orellup, Margaret A., Associate Professor, History; B.A., Butler University; M.A., George Washington University; Ph.D., University of Massachusetts, Amherst (1997)

Paley, Donna, Assistant Professor, Architectural Design; B.A., University of Pennsylvania; M.A., Harvard University (2004)

Pan, Yuan, Assistant Professor, Art/Graphic Design; B.F.A., Yunnan Art Institute; M.F.A., Memphis College of Art (2002)

Pappalardo, John R., Professor, Management; B.A., Massachusetts College of Liberal Arts; B.A., M.Ed., University of Massachusetts, Amherst; Ph.D., Virginia Commonwealth University (1989)

Partellos, Peggie, Associate Professor, Mason Library; B.A., M.A., State University of New York, Binghamton; M.L.S., State University of New York, Albany; M.B.A., Plymouth State College (1990)

Patterson, Daniel L., Associate Professor, Theatre; B.F.A., M.F.A., University of Texas, Austin (1978)

Payson, David G., Jr., Associate Professor of Journalism; B.A., Michigan State University; M.A., Ph.D., Northwestern University (1996)

Pedroza Gonzalez, Patricia, Lecturer-Contract Faculty, Women's Studies/Multicultural Studies; B.S., University of Michoacan Morelia (2000)

Perron, Céline, Professor, Dance; B.F.A., Concordia University; M.F.A., University of Massachusetts, Amherst (1990)

Porter-Utley, Kristen E., Assistant Professor, Biology; B.S., M.A., Ph.D., University of Florida (2004)

Pruchansky, Neal R., Professor, Management; B.A., M.A., Ph.D., University of Massachusetts, Amherst; M.B.A., Indiana State University (1985)

Ramirez-Crusellas, Lourdes, Professor, Modern Languages; B.A., Indiana University, Bloomington; M.A., Middlebury College; Ph.D., University of Massachusetts, Amherst (1975)

Reed, Judith, Assistant Professor, ESEC, B.A., Antioch College, Ohio; M.A.T., Ed.D., University of Massachusetts, Amherst (2005)

Roberts, John E., Professor, Art; B.F.A., Southeastern Massachusetts University; M.F.A., Southern Illinois University (1981)

Roos, Elisabeth T., Associate Professor, Theatre; B.A., Smith College; M.F.A., Northwestern University (1988)

Roos, Peter, Associate Professor, Art; B.F.A., Syracuse University; B.F.A., M.F.A., Art Institute of Chicago (1990)

Rousseau, Joseph F., Professor, Education; B.S.Ed., Fitchburg State College; M.A., Assumption College; Ph.D., Syracuse University (1970)

Rydant, Albert L., Professor, Geography; B.A., Worcester State College; M.A., Southern Illinois University, Carbondale; Ph.D., University of Victoria (1984)

Salcetti, Marianne, Assistant Professor, Journalism; B.A., M.A., Ohio State University; Ph.D., University of Iowa (2003)

Sandy, Kirsti A., Assistant Professor, English; B.A., Rivier College; M.S., Ph.D., Illinois State University (2000)

Scioli, Anthony, Professor, Psychology; B.S., University of Massachusetts; M.A., Ph.D., University of Rhode Island (1991)

Seibert, M. Therese, Associate Professor, Sociology; B.A., University of Southwestern Louisiana; M.A., Louisiana State University; Ph.D., University of Texas (1998)

Seigh, William R., Associate Professor, Dance; B.A., San Francisco State University; M.F.A., University of Colorado (1998)
Sheaff, Charles A., Professor, Technology, Design and Safety; B.Ed., Keene State College; M.O.E., University of New Hampshire; Ed.D., University of Massachusetts, Amherst (1982)

Sherry, Robert L., Professor, Economics; B.A., Boston College; Ph.D., Yale University (1984)

Simoneau, Robert W., Associate Professor, Management; B.S., Lowell Technological Institute; M.S., University of Lowell (1989)

Smith, Margaret A., Instructor, Health Science; B.A., Clark University; M.A., Boston College (2001)

Smith, Pamela J., Associate Professor, Health Science; Registered Dietitian; B.S., Hofstra University; M.S., Boston University; Ed.D., Nova Southeastern University (1994)

Smyth, Donna M., Associate Professor, Physical Education; B.S., University of Massachusetts, Amherst; M.S., Smith College; Ed.D., University of Massachusetts, Amherst (1988)

Spangler, Ronald B., Assistant Professor, Theatre; B.A., Wittenberg University; M.A., Kent State University; M.F.A., University of Massachusetts (1989)

Stanish, Karen B., Assistant Professor, Mathematics; B.S., Stonehill College; Ph.D., University of Virginia (2002)

Stemp, W. James, Assistant Professor, Anthropology; B.A., University of Toronto; M.S., Oxford University; Ph.D, McGill University (2004)

Stevenson, Peter R., Assistant Professor, Sociology; A.B., Lansing Community College; B.S., M.A., Ph.D., Western Michigan University (2000)

Stowell, David O., Associate Professor, History; B.A., University of South Carolina; M.A., State University of New York, Brockport; M.A., Ph.D, State University of New York, Buffalo (1994)

Strong, Scott J., Associate Professor, Biology; B.S., Miami University; Ph.D., Florida State University (1998)

Stroup, William J., Assistant Professor, English; A.B., University of Michigan; M.A., Kent State University; Ph.D., University of New Hampshire (2001)

Sylvern, Craig S., Associate Professor, Music; B.M., B.M.E, M.M., Florida State University; D.M.A., The Ohio State University (1998)

Temple, Peter L., Associate Professor, Technology, Design and Safety; A.B., Dartmouth College; M.S., University of Massachusetts; P.E., State of New Hampshire (1991)

Theberge, Susan K., Associate Professor, Education; B.S., Cornell University; M.Ed., Cambridge-Goddard Graduate School; M.A., Lesley College, Ed.D., University of Massachusetts, Amherst (1998)

Timmer, Jeffrey M., Assistant Professor, Physical Education; B.A., Calvin College; M.A., Central Michigan University; Ph.D., University of Pittsburgh (2001)

Timney, Mark C., Assistant Professor, Journalism; B.A., Edinboro University of Pennsylvania; M.S., Ph.D., Ohio University (2001)

Torres, Maria Beatriz, Assistant Professor, Communication; B.A., Universidad Nacional de Cordoba, Argentina; M.A., Ph.D., Ohio University (2005)

Treadwell, Melinda D., Assistant Professor, Technology, Design and Safety; B.S., Keene State College; Ph.D., Dartmouth College (2000)

Tschannerl, Janaki Natarjan, Senior Lecturer-Contract Faculty, Teacher Education/Multicultural Studies; B.A., Swarthmore College; M.Ed., Ph.D., Harvard University (1998)


Vincent, C. Paul, Associate Professor, Holocaust Studies/Director, Cohen Center for Holocaust Studies; B.S., Oregon State University; M.A., University of Northern Colorado; A.M.L.S., University of Michigan; Ph.D., University of Colorado (1985-1994; 1998)

Viveiros, Donna M., Professor, Psychology; B.A., Southeastern Massachusetts University; M.S., Ph.D., Purdue University (1984)

Walsh, Margaret M., Associate Professor, Sociology; B.A., Wheaton College; M.A., Ph.D., University of New Hampshire (2000)

Ware, Barbara B., Assistant Professor, Modern Languages-Spanish; B.A., University of North Carolina Greensboro; M.A., University of Delaware; Ph.D., Temple University (2003)

Weed, Charles F., Jr., Professor, Political Science; B.A., Middlebury College; M.A., Ph.D., University of Denver (1972)

Welkowitz, Lawrence A., Associate Professor, Psychology; B.A., Middlebury College; M.A., Ph.D., University of Hawaii, Honolulu (1997)

Welsh, Michael M., Assistant Professor, Political Science; B.S., University of Iowa; M.S., University of Montana; Ph.D., University of Oregon (2004)

White, David E., Professor, Education; B.A., M.Ed., Ed.D., University of Virginia (1975)

Whittemore, Susan L., Professor, Biology; B.S., State University of New York, Syracuse; M.S., Utah State University; Ph.D., Dartmouth College (1993)

Wilson, Andrew, Professor, History and Philosophy; B.A., University of Vermont; M.A., Ph.D., Cornell University (1991)

Witkowski, Joseph C., Professor, Mathematics; B.S., Lowell Technological Institute; M.S., Idaho State University; D.A., Illinois State University (1984)

Wolf, Frederick J., Professor, Physics; B.S., M.S., Ph.D., State University of New York, Albany (1977)

Wright, Roxana, Instructor, Management; B.S., Transylvania University; M.A., Portsmouth State University (2004)

Youga, Janet M., Professor, English; A.A., Thornton Community College; B.A., Northern Illinois University; M.A., Ph.D., University of Iowa (1994)
Zerucha, Theodore S., Assistant Professor, Biology; B.S., M.S., University of Manitoba-Canada; Ph.D., University of Ottawa (2001)

Artists-in-Residence
Baldini, Donald J., Music; B.M., Indiana University
Loring, George G., Music; B.A., Harvard College; M.A., New England Conservatory
Murdock, Marcia H., Dance; B.A., Brandeis University

Adjunct Faculty
As of January 2005 and based on five or more years of service.

Bayr, Christine M., Modern Languages; B.A., Keene State College
Blau, Michael M., Communication; B.A., Franklin Pierce College; M.Ed., Keene State College
Bowblis, Robert J., Chemistry; B.S., Keene State College
Brown, Hal G., Health Science/Sociology; B.S., Hawthorne College
Buck, David S., Technology, Design, and Safety; B.Ed., J.O.E., Keene State College; Ed.D., Brigham Young University
Carlson, Richard B., Art; B.F.A, University of Hartford; M.F.A., University of Cincinnati
Carr, Daniel P., Art; B.A., Clark University
Cheney, Eric, Sociology; B.A., M.A., University of Massachusetts
Collins, Stephen H., Journalism; B.A., Hobart College; M.A., University of Missouri School of Journalism
Cummings, Jean (Dede), Art; B.A., Middlebury College
Cushing, Diane T., Music; M.M., Boston Conservatory
Dearth, Donna L., Music; B.M., M.Ed., Keene State College
Doubleday, Deborah, Education; B.A., M.Ed., Keene State College
Dubois, Elizabeth E., ESEC; B.Ed., M.Ed., Keene State College
Dutton, Julia M., French; B.A., Emmanuel College; M.A., Emmanuel College Graduate Program at the Université de Paris
Falzo, Holly R., Communication; M.A.T., Keene State College
Feldmann, Joel T., Physical Education; B.S., University of Colorado; M.Ed., Wayne State University
Fisk, Norman J., Technology, Design and Safety; A.E., Wentworth Institute; B.S., Keene State College
Flagler, Richard, Computer Science; B.S.B.A., Nichols College
French, Michael W., Physics; B.M.E., Clarkson University; M.M.E., Cornell University
Friedman, Jeffrey H., English; B.A., Macalester College; M.A., University of Missouri; M.F.A., University of Iowa
Gendron, Heather B., Graphic Design; B.A., Keene State College
Gonthier Jr., David E., Film Studies; B.A., University of New Hampshire; M.S., Boston University Graduate School of Film
Grayson, Janet M., English; B.A., M.A., Brooklyn College; Ph.D., Columbia University
Hackerott, Robert A., Technology, Design and Safety; A.S., Hutchinson Junior College; B.A., Fort Hayes State University; M.Ed., Keene State College
Hayden, Gerald D., History; B.A., Keene State College; M.A., University of Massachusetts, Amherst
Heaney, Kevin W., Geography; B.A., Potsdam College
Henkel, Sussan D., Music; B.M., Northwestern University
Hitchner, John T., English; B.A., Glassboro State College; M.A.L.S., Dartmouth College
Hornbeck, Vesta A., English; B.A., Phillips University; M.Ed., Keene State College
Johnson, Kathleen R., Sociology; B.A., M.A., Ph.D., University of Massachusetts
Kerwin, Charles M., Geology; B.S., Keene State College; M.S., University of New Hampshire
LaBounty, Laura J., Management/Computer Science; B.S., Keene State College; M.B.A., Plymouth State College
Laroche, Anne E., Art; B.A., Pratt Institute; M.A., University of Hartford
LeDuc, Richard, English; B.A., M.Ed., Keene State College
Leger, Carol A., Geology; B.S., Keene State College
Lichtenstein, Sally, English/Women’s Studies; B.A., Vermont College of Norwich University
Mann, Ted N., Music; B.M., Keene State College; M.M., University of New Hampshire
Martin, J. Wesley, Political Science; B.A., Stanford University; M.A., Ph.D., University of Wisconsin, Madison
Martin, Rodger C., Journalism; B.S.Ed., Millersville State University; M.Ed., Keene State College
Matathias, Robin T., Music; B.A., University of California; M.A., City College of New York
Mattson, Teresa L., Health Science; B.S., Ohio State University; M.Ed., Keene State College
McDade, Nancy E., Biology; B.S., SUNY Cortland; M.A., Ph.D., University of Maryland
Miller, Theodore R., Geography; B.Ed., M.Ed., M.A.T., Keene State College
Morton, Marjorie (Mimi), English; B.A., University of Vermont; M.A., University of Chicago; Ph.D., McGill University
Moynihan, M. Ellen, English; B.Ed., M.A.T., Keene State College
Nicolai, Walter C., Art; B.A., Grove City College; M.D., Yale University Divinity School; M.F.A., Yale University School of Art

O’Brien, Thomas G., Mathematics; B.S., St. John’s University; M.S., Adelphi University

Otis, Melanie T., Health Science; B.S., University of New Hampshire; M.Ed., Rivier College

Pacilio, Elizabeth, English; B.A., State University of New York at Geneseo; JD, Temple University School of Law

Parent, Ruth D., Communication; M.Ed., Antioch New England Graduate School

Phillips, Katherine L., Film Studies; B.A., M.A., New York University

Rice, Glenn A., Psychology; A.B., Ph.D., Brown University; M.A., University of California

Rogers, Timothy H., Music; B.A., M.M., Bob Jones University

Rojas, Camilo, Spanish; B.M, New England Conservatory; M.M, University of Massachusetts

Russell, George, Modern Language/English; B.A., Rutgers University; M.A., San Francisco State University; M.A., University of Hawaii, Manoa

Speaks, Mitchell R., Psychology; B.A., University of California-Santa Barbara; M.A., California State-Long Beach; M.A., University of California-Irvine

Spector, Kenneth M., Art; B.A., University of South Florida; M.F.A., University of Montana

Thompson, Ronda M., Computer Science; B.S., Keene State College; M.S, Antioch New England Graduate School

Vander Haegen, Eleanor M., Sociology; A.B., Emmanuel College; M.A., Marquette University; Ph.D., University of Minnesota

Wakefield, Michael C., Communication; A.A., B.S., M.Ed., Keene State College

Warder, Graham D., History; B.S., Dartmouth College; M.A., University of Massachusetts, Amherst

West, Vaughn, Theatre; B.G.S., Ohio University

Wheeler, Carolyn E., Biology; B.S., M.S., University of Massachusetts

Whitcomb, Thomas E., History; B.A., University of New Hampshire; Ph.D., University of London

Witkowski, Griselda, Modern Languages/Computer Science; B.B.A., Laredo State University; M.A.T., Keene State College

Emeriti Faculty


Andrews, David B., Psychology (1970-2001)


Batchelder, Peter H., German (1966-1981)

Bird, Hubert C., Music (1967-1997)


Blacketer, Paul G., Education (1966-1997)

Blecharczyk, Stephanie A., ESEC (1975-2002)


Butterfield, Nancy, Mason Library (1985-1997)

Costin, David E., Education (1957-1995)

Cunningham, John D., Biology (1966-1991)


Davis, Clarence G., Philosophy (1968-1985)


Doble, Richard F., Technology, Design and Safety (1968-2000)


Ebbighaussen, Margaret D. (Rogers), Special Education (1974-1991)

Felton, William S., Sociology (1964-1996)

Flemming, Donald N., Modern Languages (1971-2000)

Fosher, Frederick J., English (1967-1992)

Franc, Lillian, Education (1976-1986)


Goder, Miriam E., Music (1962-1994)


Greer, William B., Industrial Technology and Safety (1965-1994)


Haley, Francis L., Geology (1961-1987)

Harvey, David E., History (1965-1991)

Havill, Thomas L., Geography (1966-1997)


Jones, Frangcon L., English (1959-1985)

King, Keith V., Physical Education (1957-1987)


Lenthalnd, Gerard, Psychology (1978-2001)


Lovering, Sherman A., Education (1957-1985)

Lyle, Cornelius R., II, Journalism (1960-1986)


Martin, Roger E., Management (1987-2002)
Mize, Glenna J., Education (1972-2004)
Neuman, Robert S., Art (1972-1990)
Peters, Ann C., Mathematics (1948-1972)
Quirk, James D., Physics (1967-1997)
Rosenstock, Raymond H., Music (1972-1998)
Shepherd Jr., Clyde W., Special Education (1968-2000)
Smallman, Shirley, Journalism (1979-2001)
Smart, James G., History (1966-1994)
Smith, M. Glenn, Special Education (1976-2001)
Spearman, Carlesta E., Music (1979-1993)
Stavely, Homer E. Jr., Psychology (1972-2005)
Sweeney, Christine M., Education (1969-1992)
Waling, Ann Britt, Health Science (1972-2001)
Whitaker, Kenneth W., Wheelock School (1964-1987)
Wise, Benjamin N., Biology (1976-2005)
Wolf, Jo Beth, Political Science (1976-1996)

Armstrong, Steven A., Media Specialist, Information Technology Group; B.A., Keene State College (1980)
August, Melissa R., Residence Director, Residential Life Office; B.A., Regis College (2002)
Babonis, Helen Z., Assistant Manager, Bookstore; B.S., University of Connecticut (2001)
Backes, Pamela S., Assistant Director, Elliot Center - Academic and Career Advising; B.A. Alma College; M.A. Michigan State University (1986)
Baker Jr., Robert, Director, Continuing Education; B.S., Franklin Pierce College; M.S. Boston College (1990)
Bickford, Robin M., Nurse, Health Services; R.N., Concord Hospital School of Nursing (2000)
Birdsey, Joy, Bursar; B.S., Quinnipiac College; M.B.A., Plymouth State College (2005)
Bleam, Nancy K., Athletic Trainer, B.A., Adrian College; M.A., Austin Peay State University (1996)
Blodgett, Patricia A., Director of Student Financial Services; B.S., Keene State College (1983)
Boucher, Keith, Women’s Basketball Coach; B.S., Plymouth State College; M.P.E., Norwich University (1989)
Branden, Craig M., Skills Application Teacher, Journalism; B.A., State University of New York, Oswego (1995)
Brown, Marché R., Director of National and International Exchange; B.A., Columbus College; M.A., University of Kent, Canterbury (2004)
Brush, Francis, Director, Mail and Print Services, Bookstore; A.A., Trenton Junior College (1994)
Burke, Christine M., Director, Wellness Promotion; B.S., University of Massachusetts; M.Ed., Lesley University (2003)
Bury, Kenneth J., Information Technologist, Information Technology Group; B.S., M.S., Polytechnic University (2003)
Bush, Christopher N., Information Technologist, Student Financial Services; B.S., M.S., State University of New York, Albany (1998)
Cahoon, Elizabeth A., Assistant Director, Admissions; B.S., Keene State College (1990)
Carley, James K., Associate Director of Residential Life; B.S., M.Ed., Pennsylvania State University (1990)
Carson, CriSti L., Director, Institutional Research; B.S., Weber State University; Ph.D., University of California, Riverside (2003)
Child, Cheryl, Information Technologist, Information Technology Group; B.S., Keene State College (1991)
Colbert, Robert E., Men’s Basketball Coach; B.A., Marist College (1999)

Professional/Administrative/Technical Staff

As of January 2005. Year of appointment is in parentheses.

Ahern, Maureen J., Art Gallery Director; B.F.A., University of Massachusetts, Amherst; M.A., State University of New York, Albany (1980)
Anderson, Ramona K., Counselor, Student Counseling; B.S., Mankato State University; M.A., Antioch New England Graduate School (1999)
Andrews, Lynne, Associate Director of Athletics and Recreational Sports; B.S., M.S., Miami University (1992)
Colley, Debra, Nurse Practitioner, Health Services; B.S., University of Connecticut; M.S., University of Wisconsin (2005)

Condon, Peter J., Skills Application Teacher, Film; B.A., M.A., Keene State College (2001)

Cooper-Ellis, Sarah, Facilitating Teacher; B.S., Lesley College; M.A. Smith College (2004)

Couture, John R., Interim Dean, Professional & Graduate Studies; B.A., Marist College; M.Ed., Keene State College; Ed.D., University of Massachusetts, Amherst (1990)

Darrow, Jennifer, Academic Web Specialist/Blackboard Administrator, Information Technology Group; A.S., Greenfield Community College; B.A., University of Massachusetts; M.A.T., Person School of Marlboro College (2003)

Davis, Jeudi L., Chemistry Lab Specialist; B.S., Pacific Lutheran University (1982)

Demmons, Daniel C., Associate Manager, Bookstore; A.S., Keene State College (1997)

Denehy, Brendan S., Redfern Arts Center Manager; B.A., M.A., Keene State College (1990)

Dickson, Julie, Executive Assistant to the President; B.A., College of Wooster; M.A., Temple University (1985)

Diffin, Jennifer A., Systems Librarian/Head of Library Services; B.S., M.L.S., Simmons College (2002)

Dintino, Maria, Associate Director, Aspire Program; B.A., University of New Hampshire; M.A.L.S., Keene State College (1992)

Donnelly, Joan M., Skills Application Teacher, Communication; B.S., New Hampshire College; M.Ed., University of Southern Maine; Ph.D., Boston College (1988)

Doyle, Martha, Nurse, Health Services; Hartford Hospital School of Nursing (1990)


Draper, James B., III, Director of Campus Purchasing and Contract Services; B.B.A., University of Massachusetts, Amherst (1986)

Eldridge, Carrie E., Residence Director, Residential Life Office; B.S., Emerson College (2001)


Esperanza, Brenda, Counselor, Counseling Center; B.A., Antioch Graduate School; M.A., University of Massachusetts, Amherst (2002)


Featherston, Katherine K., Biology Lab Coordinator, Science Center; B.S., University of Maine (1998)

Felch, Anna, Information Technologist, Information Technology Group (1998)

Fienberg, Nona, Dean, Arts and Humanities; B.A., University of Toronto; M.A., Ph.D., University of California, Berkeley (1991)


Fortini, Mary-Ellen, Director, Sponsored Projects and Research; B.A., University of Kansas; M.A., Ph.D., University of Vermont (2003)

Friedman, Jeffrey M., Information Technologist, Admissions Office (1998)

Gagnon, Ann M., Senior Administrative Assistant, President’s Office; A.A., Keene State College (2003)

Gallagher, Steven M., Assistant Director, Student Financial Services; B.S., Plymouth State College (1999)

Gempler, Mark N., Assistant Director, Operations, Young Student Center; B.A., Grinnell College (1996)


Glotzer, Alan M., Director, TRIO Programs; B.S., M.A., Hofstra University (1979)


Gutierrez, Karen M., Early Childhood Teacher, Child Development Center; B.S., Keene State College (2001)

Haggarty, Nancy M., Graphic Designer, College Relations; B.A., Simmons College; B.A., Keene State College (1995)

Halloran, Pat A., Assistant Director, Academic and Career Advising – Elliot Center; B.A., Boston College; M.Ed., Keene State College (1995)

Halter, John D., Budget Coordinator, Business Office; B.S., Rollins College (1982)

Happgood, Jennifer, Residence Director, Residential Life Office; B.A., Keene State College; M.Ed., University of Maine (1999)

Harkness, Kimberly, Interim Director, Human Resources; B.A., Keene State College (1986)

Hayes, Donald E., Community Services Coordinator; B.A., Vermont College; M.A., New Hampshire College (1994)

Hearn, Jeanne S., Assistant Director, Aspire; B.S., M.Ed., Springfield College (1988)

Hearn, Patrick K., Recreational Athletics Coordinator, Intramural Recreation; B.S., St. Lawrence University; M.Ed., Springfield College (1999)

Herold, Irene M.H., Director, Mason Library; B.A., M.L.S., University of Washington (2002)

Hodges, Mark Albertson, Information Technologist, Information Technology Group; B.A., University of California-Berkeley (2001)

House, Karen P., Associate Vice President for Finance; B.S., University of Virginia (2000)

Howe, Kenneth N., Baseball Coach; B.A., Keene State College (1999)
Huntley, Sheryl L., Information Technologist, Registrar’s Office; A.A., B.A., Keene State College (1985)
Hutchinson III, Edwin R., Residence Director, Residential Life Office; B.A., Keene State College; M.A., University of Rhode Island (2003)
Ingalls, Jaime K., Research Lab Assistant, Technology, Design and Safety; B.A., B.S., Keene State College (2004)
Jamieson, Benjamin J., Residence Director, Residential Life Office; B.A., University of Virginia; M.S., Miami University at Ohio (2001)
Jasmin, Heather M., Information Technologist, Institutional Research; B.S., Keene State College; M.B.A., Plymouth State College (1990)
Jensen, Mary E., Program Coordinator, Physical Plant/Recycling; B.A., Keene State College; M.A., Vermont College of Norwich University (1999)
Jewell, Craig A., Educational Program Coordinator Trainee, Upward Bound; B.A., Bowdoin College (2002)
Justice, Chris M., Graphic Designer, College Relations; B.A., University of Delaware; B.A., Keene State College (1985)
Justice, Kevin, Admissions Officer; B.S., Whitman College (2003)
Kalich, Judith J., Director of Advancement; B.A., Pennsylvania State University; M.A., Michigan State University (1995)
Kaufman, Stuart E., Sports Information Officer, College Relations; B.A., University of Massachusetts, Amherst; M.Ed., Springfield College (1992)
Kelley, Fanny M., Assistant Bursar, Student Financial Services; B.A., Keene State College (1993)
Kelley, Robert J., Information Technologist, Information Technology Group; B.S., University of Rhode Island (1994)
Kessler, Steven C., Assistant Director, Continuing Education; B.A., M.A.T., Colgate University (1997)
King, Christine M., Academic/Career Counselor, Elliot Center; B.A., SUNY College at Geneseo; M.Ed., Hunter College (2003)
Kuiawa, Michele, Business Services Assistant, Elliot Center; B.A., Keene State College (2004)
Langille, Christopher, Research Associate, Technology, Design and Safety; A.S., B.S., Keene State College (2004)
Larracey, Merle A., Director, Teacher Education/Graduate Studies Office; B.S., State University of New York, Plattsburgh; M.Ed., Keene State College (1972)
LeBlanc, Diane R., Information Technologist, Information Technology Group; A.S., Mount Wachusett Community College; B.S., Lesley University (2003)
Leversee Jr., Gordon J., Dean of Sciences; B.A., Dartmouth; Ph.D., Duke University (1981)
Lindsay, Craig R., Skills Application Teacher, Theatre and Dance; B.A., Bishops University (1997)
Little, Jacque, S., Residence Director; B.A., Westminster College; M.Ed., University of Vermont (2004)
Lodge, Gloria A., Academic Counselor, Elliot Center; B.A., University of New Hampshire (1997)
Lothrop, Carol L., Early Childhood Teacher, Child Development Center; B.S., University of Massachusetts, Amherst (1996)
Lyons, Denise T., Women’s Soccer Coach; B.S., Keene State College (1996)
Maceda, Kathleen, Educational Program Coordinator, Aspire; B.A., University of the Philippines; M.A., Harvard Graduate School of Education (2003)
MacLean, Kay M., Coordinator of Alumni Events, Alumni and Parent Relations; B.S., Trinity College (1997)
Maher, Michael F., Director of Alumni and Parent Relations; B.A., Keene State College; M.A., Pennsylvania State University (1993)
Martin, Beth, Information Technologist, Advancement; B.S., Keene State College; M.B.A., Plymouth State College (1993)
Martin, Mandy, Financial Aid Officer, Student Financial Services; B.A., College of Wooster; Ed.M., Boston University (2005)
Martinez-Bohannon, Misty M., Assistant Director, Student Financial Services; B.A., Keene State College (1994)
Matros, Michael J., Director, College Relations; A.B., Duke University; M.F.A., University of North Carolina-Greensboro (1997)
Mayshark-Stavely, Mary W., Interim Director, Child Development Center; B.A., Antioch College; M.A., Sonoma State University (1986)
Mazzola, Frank G., Director, Physical Plant Operations; B.S., State University of New York College of Technology (1993)
McCordale, Ken, Chief Information Officer, Information Technology Group; B.S., University of Florida; B.S., Towson State College; M.S., Rensselaer Polytechnic Institute (2002)
McGreer, Heather J., Assistant Director, Human Resources; B.S., Syracuse University (1997)
McPartlin, Deirdre, Early Childhood Teacher, Child Development Center; B.A., Keene State College (1995)
Mead, Margaret L.R., Facilitating Teacher, Child Development Center; B.S., University of Connecticut; M.S., Eastern Connecticut State University (2002)
Menezes, William R., Director, Redfern Arts Center; B.A., St. Mary’s College, California; M.F.A., University of Massachusetts, Amherst (1987)
Merrow, Robert, Athletic Trainer; B.S., Plymouth State College; M.A., Marshall University (1986)
Mielke, Laura K., Education Program Coordinator, Upward Bound; A.S., B.A., Keene State College; M.Ed., University of New Hampshire (2001)
Miles, Christine A., Manager, Fitness Center; A.S., Bryant College; B.S., Keene State College (2000)
Miller, P. Anne, Director, Elliot Center; B.S., M.S., Michigan State University (1993)

Mobilia, Charles L., Information Technologist, Information Technology Group; B.A., Lycoming College (1997)

Monyo-Tetteh, Monica E., Admissions Officer; B.A., M.A., University of Buffalo (2003)

Mosier, Melinda A., Assistant Director, Advancement; B.S., Northern Arizona University (2002)

Mucci, Beth M., Early Childhood Teacher, Child Development Center; B.S., University of Vermont; M.S., Wheelock College (2000)

Mundahl, Beth, Substance Abuse Counselor, Counseling Service; B.A., Keene State College; M.S.W., Adelphi University (1989)

Nelson, Susan E., Student Health Services Nurse; R.N., Newton Wellesley Hospital School of Nursing (2004)

Oden, Gary, Director, Small Business Development Center; B.A., University of Connecticut; M.B.A., Clark University (2004)

Orman, David J., Writer/Editor, College Relations; B.B.S., Massey University of New Zealand (2000)

Palmer, Ralph, Energy and Administrative Coordinator; B.A., Antioch College (1979)

Paré, Kimberly E., Information Technologist, Information Technology Group; A.S., Endicott Junior College; B.S., Johnson State College (1997)

Parsons, John W., Information Technologist, Information Technology Group; A.S., Finger Lakes Community College (1997)

Peery, Susan, Editor/Writer, College Relations; B.A., University of Wisconsin (2004)

Perry, Cheryl A., Theatre Operations Manager, Redfern Arts Center; B.A., Keene State College (1991)

Phillips, Eileen M., Skills Application Teacher, Director, Math Center; B.A., Utica College; M.S., SUNY College at Potsdam (1998)

Piper, Pat A., Information Technologist, Information Technology Group; B.A., University of Maryland (1985)

Poirier, Bertrand, Associate Director of Admissions; B.A., Keene State College (1985)

Powers, Glenn T., Information Technologist, Residential Life; B.S., Keene State College (1997)

Preston, Barbara, Assistant Director of Student Financial Services; B.S., Keene State College (2004)

Price, Dolores Rose, Educational Program Coordinator, OSHA Office; B.S., M.S., University of Massachusetts, Lowell (2003)

Putzel, Judith, Associate Director of Counseling Services; B.A., Vassar College; M.Ed., Ed.D., University of Massachusetts, Amherst (1986)

Qualls, Dalya J., Sports Publicity Assistant, College Relations; B.A., University of Illinois (2004)

Rancourt, Ann M., Associate Vice President for Academic Affairs; B.S., Plymouth State College; M.S., Northeastern University; M.A., Central Michigan University; Ph.D., Florida State University (1997)


Ratiliff, John C., Director of Athletics and Recreational Sports; B.S., Davidson College; M.S., Ohio University (1995)

Richard, Thomas M., Registrar; B.S., University of Massachusetts, Amherst; M.O.E., Keene State College; Registered Dietitian (1980)

Richmond, Margaret A., Director, Admissions; B.A., University of New Hampshire (1984)

Robinson, Andrew P., Associate Vice President for Student Affairs; B.A., Allegheny College; M.S., Ph.D., Syracuse University (1991)

Rothberg, Aaron D., Information Technologist, Information Technology Group; B.S., Keene State College (2003)

Russell, Carole L., Early Childhood Teacher, Child Development Center; B.S., Michigan State University (1997)


Sands, Carole E., Facilitating Teacher, Child Development Center; B.A., Wesleyan University; M.A., Wheelock College (1990)

Santiago, Christopher M., Assistant Director, Campus Safety; A.S., B.S., Mount Ida Junior College (2003)


Schmidl-Gagne, Mark, Dispute Resolution Coordinator, Student Development; B.A., University of Massachusetts, Amherst; M.Ed., Keene State College (1995)

Scholz, Gregory R., Lead Network Engineer, Information Technology Group; B.S., University of Maryland (2004)

Seraichick, Laura J., Director, Information Services and Support, Information Technology Group; B.A., University of Massachusetts, Amherst (1997)

Stanmore, Carol E., Associate Director, Student Financial Services; B.S., Regents College - State University of New York (2002)

Striffolino, Paul A., Director, Campus Life; B.S.Ed., State University of New York, Geneseo; M.A., Bowling Green State University (1989)

Tandy, Peter S., Academic Counselor, Graduate Studies; B.A., University of New Hampshire; M.S., Antioch New England Graduate School (1995)

Testo, Martin W., Admissions Officer; B.S., Keene State College; M.Ed., Springfield College (2003)

Thomas, Peter G., Track/Cross Country Coach; B.S., Keene State College (1999)
Tilton, Robert L., Information Technologist, Student Financial Services; B.S., Keene State College (2000)
Traviss-Velazquez, Nora M., Environmental Health and Safety Specialist, Physical Plant; B.S., Pennsylvania State University; M.S., New Jersey Institute of Technology (2002)
Ullman, Erik B., Information Technologist, Information Technology Group; A.S., Keene State College (1999)
Viall, Sasha J., Assistant Director, Admissions; B.A., Keene State College (1997)
Ward, Scot A., Athletic Trainer, Physical Education; M.S., Indiana University (1999)
Warman, Amanda G., Director, Campus Safety; B.S., Northeastern University; M.S., Northeastern University (1990)
White, Thomas, Educational Program Coordinator, Cohen Center for Holocaust Studies; B.A., Norwich University; M.A.T., Keene State College (2003)
Whitfield, Mary, Early College Awareness Program Coordinator; B.A., Hampshire College; M.Ed., Keene State College (2004)
Whittaker, Kenneth C., Information Technologist, Information Technology Group; A.S., Thames Valley State Technical Institute (1979)
Wiggum, Candice D., Director, Counseling Center; B.S., Washington State University, Pullman; M.S., Western Washington University; Ph.D., Oregon State University (2002)
Williams, Elizabeth J., Telecommunications Specialist, Information Technology Group; B.A., Kalamazoo College (1995)
Williams, Michel P., Assistant Director of Residential Life; B.A., M.A., California State University, Chico (1986)
Winsor, Arthur Jr., Assistant Director of Physical Plant/Grounds; B.S., University of Rhode Island (1993)
Yang Handy, Angela K., Educational Program Coordinator, National and International Exchange; B.A., M.A., Clark University (2001)
Zinn, Elizabeth A., Educational Program Coordinator, Upward Bound; B.S., Simmons College; M.Ed., Antioch New England Graduate School (2000)

Arsenault, Carol, Professional Studies; B.S., Keene State College (1979)
Arsenault, Dianne, Athletics (1989)
Atherton, Kerry S., Management; A.A., Keene State College (1985)
Aubrey, Nancy A., Arts and Humanities (2001)
Audet, Anne L., Student Financial Services (1999)
Balla, Nancy, Residential Life; B.S., Keene State College (1990)
Bentzen, Barbara A., Elliot Center; A.A., Keene State College (2002)
Bond, Pamela, Residential Life (1990)
Bosquet, Brendan, Campus Safety (2003)
Bottomley, Kathryn E., Admissions; A.A., Bryant College (2002)
Brockway, Barbara, Admissions Office (1990)
Butler, Deborah A., Athletics (1994)
Carriente, Dorothy D., Professional Studies; A.A., Montgomery Junior College; B.A., Keene State College (1993)
Clark, Carol, Elliot Center (1990)
Clark, Deborah, Registrar’s Office; A.A., Keene State College (1980)
Clark, Elizabeth W., Mail Services (1998)
Cormier, Christopher R., Physical Plant; B.S., Keene State College (2000)
Croteau, Beth, Bookstore (2001)
Cucchiara, Linda M., Mason Library; A.S., Mount Wachusett Community College; B.S., Keene State College (1985)
Desmarais, Adrian R., Physical Plant (1984)
Dettelback, Rosemary, Vice President for Finance and Planning Office; B.S., Keene State College (1988)
Dionne, Pauline A., Vice President for Academic Affairs Office (1966)
Dufresne, Alan G., Physical Plant (2000)
Dumond, Nathan, Physical Plant (2000)
Dumond, Robert D., Physical Plant (1994)
Dunne, Audrey, Campus Safety (2002)
Dwyer, Michael G., Mason Library (1996)
Edwards, Deborah, Student Center (1998)
Ellsworth, Jane L., Physical Plant (1993)
Evans, Rebecca A., Bookstore; B.A., Keene State College (2002)
Evans, Scott, Athletics/Physical Plant (2004)

Operating Staff
As of January 2005. Year of appointment is in parentheses.
Adler, Douglas C., Physical Plant (2002)
Anderson, Agnes C., Scheduling Office; B.S., SUNY-Albany; M.Ed., Keene State College (1992)
Sevigny, William F., Physical Plant (1993)
Sherrick, Donald R., Physical Plant (1990)
Sherwood, Sandra L., Professional Studies; B.S., Keene State College (1989)
Shover, Gladys, Advancement (Alumni Volunteer)
Sibley, Maria E., Health Services (1985)
Slanetz, John W., Physical Plant (1997)
Spangler, Cheryl, Director of Mason Library Office; B.A., Wittenberg University (1990)
Stanbury, Katherine, Mason Library; B.S., Brown University (2004)
Symonds, Carol A., Student Development Office (1988)
Taylor, Toni, Campus Safety (2003)
Tilton, Anna L., Cohen Center for Holocaust Studies; B.S., University of New Hampshire (2002)
Trombley, Vicki L., Continuing Education (1999)

VanderWoude, Meredith, Elliot Center – Academic and Career Advising; A.S., Rhode Island Junior College (1988)
Ward, Michael C., Young Student Center; B.A., Western Maryland College (1997)
Warme, R. Cliff, Physical Plant (1989)
Washer, Jayne M., Aspire Program; B.Ed., Keene State College (1985)
Whippie, Ronald R. Sr., Physical Plant (1987)
Whitcomb, Jean M., Office of Dean of Arts and Humanities; A.S., Champlain College; B.S.Ed., Keene State College (1982)
Whitney, Bette, Recreational Sports; A.A., B.A., Keene State College (1990)
Wilson, Laura S., Redfern Arts Center; B.A., Keene State College (1984)
Wright, Carole, Student Financial Services (2001)
Yeaw, Robert W., Physical Plant; B.S., Keene State College (1993)
Awards Conferred by the College

Honorary Degrees

2004
Richard Cohen
Honorary Doctor of Laws
Sy Montgomery
Honorary Doctor of Letters

2003
Yaffa Eliach
Doctor of Humane Letters
Wesley McNair
Doctor of Humane Letters

2002
John Hockenberry
Doctor of Humane Letters

2001
Ernest Hebert
Doctor of Letters
Katherine Paterson
Doctor of Letters

2000
Gerald Wheeler
Doctor of Science

1999
Patricia Gallup
Doctor of Laws
Millard D. Fuller
Doctor of Letters

1998
Jules Olitski
Doctor of Arts
Jane Yolen
Doctor of Letters

1997
Lorene Carey
Doctor of Letters

1996
Stacey W. Cole
Doctor of Laws

1995
James L. Koontz
Doctor of Laws
Maxine Kumin
Doctor of Humane Letters

1994
Virginia Eskin
Doctor of Humane Letters

1993
Elmer E. Dunbar Jr., M.D.
Doctor of Humane Letters

1992
Joseph A. Baute
Doctor of Humane Letters

1991
Jill Ker Conway
Doctor of Humane Letters
G. Richard Hopwood
Doctor of Humane Letters

1990
E. Marion Wood
Doctor of Humane Letters

1989
Judson Hale
Doctor of Humane Letters

1988
Caroline Bird
Doctor of Humane Letters

1987
J. Bonnie Newman
Doctor of Laws

1986
James C. Cleveland
Doctor of Laws

1984
Elting E. Morison
Doctor of Humane Letters
John B. Tucker
Doctor of Laws

1983
David T.W. McCord
Doctor of Literature

1982
William Morris Meredith
Doctor of Literature

1981
Bramwell Fletcher
Doctor of Humane Letters
Thomas Winship
Doctor of Humane Letters

1980
Fred L. Barry
Doctor of Humane Letters
Clesson J. Blaisdell Jr.
Doctor of Laws
Roland V. Stoodley Jr.
Doctor of Science

1979
Justice Charles J. Contas
Doctor of Laws
C. Robertson Trowbridge
Doctor of Humane Letters

1978
George Robert Stibitz
Doctor of Science

1977
Dean C. Corrigan
Doctor of Science

1976
Frank H. Blackington III
Doctor of Humane Letters
Lael Tucker Wertenbaker
Doctor of Literature

1975
Fairfax D. Downey
Doctor of Humane Letters
Frank W. Lane Jr.
Doctor of Science
David E. Putnam
Doctor of Laws

1974
Leon W. Anderson
Doctor of Humane Letters

1973
Arthur E. Cohen
Doctor of Science
James D. Ewing
Doctor of Humane Letters
Clara A. Giovannangeli
Master of Education

1972
Joseph H. Oakey
Doctor of Humane Letters
Frederick J. Simmons
Doctor of Literature

1971
Malcolm H. Keddy
Doctor of Humane Letters
Newell J. Paire
Doctor of Humane Letters

1970
Neil V. Sullivan
Doctor of Humane Letters
William A. Wolffer
Doctor of Laws

1969
John R. Goodnow
Doctor of Laws

1968
Ellen Faulkner
Doctor of Humane Letters

1967
Amos Noyes Blandin Jr.
Doctor of Laws
Elizabeth Yates McGreal
Doctor of Humane Letters
Granite State Awards

2004  Robert A. Baines, Manchester
      Rise...for Baby and Family and Toni Ellsworth, Keene
2003  Marsha Ammann, Winchester
      Timken Super Precision and the Timken Foundation, Keene
2002  Wendy Dwyer, Dublin
      Friends of the Thorne-Sagendorph Art Gallery, Keene
2001  Mervin E. Stevens, Walpole
      Norma Wright Walker, West Swanzey
2000  George R. Hanna, Keene
      The MacDowell Colony, Peterborough
1999  Richard A. Gustafson, Manchester
      Thomas P. Putnam, Keene
1998  Nury Marquez, Merrimack
      Patricia Russell, Keene
1997  Lewis M. Feldstein, Hancock
1996  William Lynch, Keene
      The Apple Hill Chamber Players, Sullivan
1995  Melinda Cambiar, Keene
      James Putnam, Keene
1994  Charlton MacVeagh Jr., Marlborough
      Lois K. Stabler, Swanzey Center
1993  Mary P. Chambers, Etna
      John F. Swope, Concord
1992  Charles H. McMurphy, M.D., Keene
1991  Alice P. Irwin, Newport
      Gail S. Talbot, West Swanzey
1990  Mary Louise Hancock, Concord
1989  Robert M. Clark Jr., Keene
1988  James L. Koontz, Keene
1987  Margaret C. Bean, Jaffrey
      Priscilla Frechette Maynard, Keene
1986  Sheldon L. Barker Sr., Keene
1985  Bernard A. Streeter, Keene
1984  Rev. Denis Horan, Marlborough
1983  David R. Proper, Keene
1982  Richard T. Snowman, M.D., Keene
1981  David B. Andrews, Psychology
1980  Peter H. Jenkins, Psychology
1979  Michael G. LeParte, Sociology
1978  Cornelius R. Lyle II, Journalism
1977  Stephen M. Smith, Education
1976  Malcolm H. Keddy, English
1975  Harry C. Tenney, Surry
      Dorothy M. Young, Keene (awarded posthumously)
1974  Kay Fox, Keene
1973  Cleon E. Heald, Keene
      Kenneth F. Zwicker, Keene
1971  Edward C. Sweeney, Keene
1970  Beatrix Sagendorph, Dublin
1969  James E. O'Neil, Chesterfield
1968  Edward J. Kingsbury, Keene

Distinguished Teacher Awards

2004  Dr. Neal R. Pruchansky, Management
2003  Janet M. Youga, English
2002  Ockle E. Johnson, Mathematics
2001  Nancy S. Lory, Special Education
2000  Kenneth D. Bergman, Biology
1999  Douglas A. Nelson, Music
1998  Charles F. Weed Jr., Political Science
1997  Edith Notman, Theatre
1996  Glenna Mize, Education
1995  Klaus Bayr, Geography
1994  Charles A. Hildebrandt, Sociology
1993  Janet M. Grayson, English
1992  David B. Andrews, Sociology
1991  Albert L. Rydant, Geography
1990  David R. Leinster, History
1989  Eleanor M. Vander Haegen, Sociology
1988  Virginia H. Trumbull, Special Education
1987  Lawrence M. Benaquist, Film
1986  Jo Beth Wolf, Political Science
1985  David E. White, Education
1984  Richard E. Cunningham, English
1983  Norman Silberdick, Management
1982  Hubert C. Bird, Music
1981  Stephen Stepenuck, Chemistry
1980  Michael G. LeParte, Sociology
1979  Cornelius R. Lyle II, Journalism
1978  Stephen M. Smith, Education
1976  Malcolm H. Keddy, English
1975  Henry A. Freedman, Art
1974  Joan B. Davis, Social Sciences
1973  Keith V. King, Physical Education
1972  Michael J. Franklin, Education
1971  Ann C. Peters, Mathematics & Education

Faculty Distinction in Research and Scholarship Award

2004  Beverly Ferrucci, Mathematics
2003  José Manuel Lezcano, Music
2002  William E. Doreski, English
2001  Jerry P. Jasinski, Chemistry

Community Service Award

2004  Arthur Winsor, Jr., Physical Plant and Grounds
2003  Stephen J. Stepenuck Jr., Chemistry
2002  Thomas E. Duston, Economics
Keene State College
Campus Map

Athletic and
Recreational Complex
From campus, drive south
on Main Street to Route
101. Turn right onto
101 and then left at the
first intersection. Go
approximately 400 yards
and turn left onto Krif
Road. Stay on Krif Road
until you arrive at the
athletic complex.

KSC Parking Decals
24C: Resident parking on campus
24N: Resident parking near campus
FF: Resident family in Tisdale Apts.
CC: Commuter parking on campus
CN: Commuter parking near campus
FS: Faculty/Staff
# Numerical Key

<table>
<thead>
<tr>
<th>Number</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Visitor Information Booth</td>
</tr>
<tr>
<td>2</td>
<td>Keddy House</td>
</tr>
<tr>
<td>3</td>
<td>Joslin House</td>
</tr>
<tr>
<td>4</td>
<td>Elliot Hall</td>
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<td>5</td>
<td>Rhodes Hall</td>
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<td>6</td>
<td>President’s House</td>
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<td>7</td>
<td>Morrison Hall</td>
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<td>8</td>
<td>Parker Hall</td>
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<tr>
<td>9</td>
<td>Hale Building</td>
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<td>10</td>
<td>Blake House</td>
</tr>
<tr>
<td>11</td>
<td>Randall Hall</td>
</tr>
<tr>
<td>12</td>
<td>Fiske Annex</td>
</tr>
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<td>13</td>
<td>Fiske Hall</td>
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<td>14</td>
<td>Huntress Hall</td>
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<td>Butterfield Hall</td>
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<td>Cheshire House</td>
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<td>18</td>
<td>Adams Technology Bldg</td>
</tr>
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<td>19</td>
<td>Science Center</td>
</tr>
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<td>20</td>
<td>Zorn Dining Commons</td>
</tr>
<tr>
<td>21</td>
<td>Mason Library</td>
</tr>
<tr>
<td>22</td>
<td>Sculpture Studio</td>
</tr>
<tr>
<td>23</td>
<td>Grafton House</td>
</tr>
<tr>
<td>24</td>
<td>Tisdale Apartments</td>
</tr>
<tr>
<td>25</td>
<td>27 Appleton Street</td>
</tr>
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<td>26</td>
<td>Pondside Apartments</td>
</tr>
<tr>
<td>27</td>
<td>Pondside Hall</td>
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<td>28</td>
<td>Redfern Arts Center</td>
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<td>29</td>
<td>Bushnell Apartments</td>
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<td>30</td>
<td>Thorne-Sagendorph Art Gallery</td>
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<td>31</td>
<td>Rec Center/Spaulding Gym</td>
</tr>
<tr>
<td>32</td>
<td>L. P. Young Student Center</td>
</tr>
<tr>
<td>33</td>
<td>83-85 Blake Street</td>
</tr>
<tr>
<td>34</td>
<td>Center for Writing</td>
</tr>
<tr>
<td>35</td>
<td>Mathematics Building</td>
</tr>
<tr>
<td>36</td>
<td>Merrimack House</td>
</tr>
<tr>
<td>37</td>
<td>8-10 Madison Street</td>
</tr>
<tr>
<td>38</td>
<td>115 Winchester Street</td>
</tr>
<tr>
<td>39</td>
<td>Zorn Dining Commons (opens Fall 2005)</td>
</tr>
<tr>
<td>40</td>
<td>Holloway Hall</td>
</tr>
<tr>
<td>41</td>
<td>48 Butler Court</td>
</tr>
<tr>
<td>42</td>
<td>Owl’s Nest No. 1</td>
</tr>
<tr>
<td>43</td>
<td>Owl’s Nest No. 2</td>
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<tr>
<td>44</td>
<td>Owl’s Nest No. 3</td>
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<td>45</td>
<td>Owl’s Nest No. 4</td>
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<td>46</td>
<td>Owl’s Nest No. 5</td>
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<td>Owl’s Nest No. 6</td>
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<td>48</td>
<td>Owl’s Nest No. 7</td>
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<td>49</td>
<td>Owl’s Nest No. 8</td>
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<td>50</td>
<td>Owl’s Nest No. 9</td>
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<td>51</td>
<td>Residential Life Office</td>
</tr>
<tr>
<td>52</td>
<td>Laundry</td>
</tr>
<tr>
<td>53</td>
<td>Carle Hall</td>
</tr>
<tr>
<td>54</td>
<td>Whitcomb Building</td>
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<tr>
<td>55</td>
<td>Recycling and Kiln</td>
</tr>
<tr>
<td>56</td>
<td>Proctor House</td>
</tr>
<tr>
<td>57</td>
<td>Carroll House</td>
</tr>
<tr>
<td>58</td>
<td>232 Main Street</td>
</tr>
</tbody>
</table>

# Alphabetical Key

## Administrative Buildings

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
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<td>Center for Writing</td>
<td>34</td>
</tr>
<tr>
<td>Cheshire House</td>
<td>17</td>
</tr>
<tr>
<td>Elliot Hall</td>
<td>4</td>
</tr>
<tr>
<td>Fiske Annex</td>
<td>12</td>
</tr>
<tr>
<td>Grafton House</td>
<td>23</td>
</tr>
<tr>
<td>Hale Building</td>
<td>9</td>
</tr>
<tr>
<td>President’s House</td>
<td>6</td>
</tr>
<tr>
<td>Residential Life Office</td>
<td>51</td>
</tr>
<tr>
<td>115 Winchester Street</td>
<td>38</td>
</tr>
<tr>
<td>L. P. Young Student Center</td>
<td>32</td>
</tr>
</tbody>
</table>

## Academic Buildings

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams Technology Bldg</td>
<td>18</td>
</tr>
<tr>
<td>Blake House</td>
<td>10</td>
</tr>
<tr>
<td>Butterfield Hall</td>
<td>15</td>
</tr>
<tr>
<td>Joslin House</td>
<td>3</td>
</tr>
<tr>
<td>Mason Library</td>
<td>21</td>
</tr>
<tr>
<td>Morrison Hall</td>
<td>7</td>
</tr>
<tr>
<td>Parker Hall</td>
<td>8</td>
</tr>
<tr>
<td>Redfern Arts Center</td>
<td>28</td>
</tr>
<tr>
<td>Rhodes Hall</td>
<td>5</td>
</tr>
<tr>
<td>Science Center</td>
<td>19</td>
</tr>
<tr>
<td>Sculpture Studio</td>
<td>22</td>
</tr>
<tr>
<td>Rec Center/Spaulding Gym</td>
<td>31</td>
</tr>
<tr>
<td>Whitcomb Bldg (Ceramics)</td>
<td>54</td>
</tr>
<tr>
<td>Mathematics Building</td>
<td>35</td>
</tr>
</tbody>
</table>

## Residential Buildings

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-85 Blake Street</td>
<td>33</td>
</tr>
<tr>
<td>Bushnell Apartments</td>
<td>29</td>
</tr>
<tr>
<td>48 Butler Court</td>
<td>41</td>
</tr>
<tr>
<td>Carle Hall</td>
<td>53</td>
</tr>
<tr>
<td>Carroll House</td>
<td>57</td>
</tr>
<tr>
<td>Fiske Hall</td>
<td>13</td>
</tr>
<tr>
<td>Holloway Hall</td>
<td>40</td>
</tr>
<tr>
<td>Huntress Hall</td>
<td>14</td>
</tr>
<tr>
<td>Keddy House</td>
<td>2</td>
</tr>
<tr>
<td>27 Appleton Street</td>
<td>25</td>
</tr>
<tr>
<td>8-10 Madison Street</td>
<td>37</td>
</tr>
<tr>
<td>Merrimack House</td>
<td>36</td>
</tr>
<tr>
<td>Monadnock Hall</td>
<td>16</td>
</tr>
<tr>
<td>Owl’s Nest No. 1-9</td>
<td>42-50</td>
</tr>
<tr>
<td>Pondside Apartments</td>
<td>26</td>
</tr>
<tr>
<td>Pondside Hall</td>
<td>27</td>
</tr>
<tr>
<td>Proctor House</td>
<td>56</td>
</tr>
<tr>
<td>Randall Hall</td>
<td>11</td>
</tr>
<tr>
<td>Tisdale Apartments</td>
<td>24</td>
</tr>
</tbody>
</table>

## Additional Facilities

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laundry</td>
<td>52</td>
</tr>
<tr>
<td>Recycling and Kiln</td>
<td>55</td>
</tr>
<tr>
<td>Thorne-Sagendorph Art Gallery</td>
<td>30</td>
</tr>
<tr>
<td>Art Gallery</td>
<td>30</td>
</tr>
<tr>
<td>Visitor Information Booth</td>
<td>1</td>
</tr>
<tr>
<td>Zorn Dining Commons</td>
<td>20, 39</td>
</tr>
</tbody>
</table>
Index

Academic and Career Advising 174
Academic Calendar 10
Academic Clubs 199
Academic Honesty Policy 168
Academic Leave of Absence 171
Academic Policies 162
Academic Probation & Suspension 167
Academic Program Planning 11
Academic Record (Transcript) 172
Academic Resources 178
Academic Standing 167
Academic Support Programs 174
Accreditation 7
Adding & Withdrawing from Courses 164
Adjunct Faculty 209
Administrators (Executive Officers) 201
Admission
Graduate 79
Undergraduate 182
Admission Requirements 182
Advanced Placement 183
Advanced Study in Education 4, 79
Advanced Study in Education Programs 82
Advising
Academic 174
Career 174
Affirmative Action Statement 4
Air Force ROTC 177
Alumni Center 198
American Studies (B.A.) 15
American Studies Courses (AMST) 90
American Studies Minor 64
Anthropology Courses (ANTH) 91
Anthropology Minor 4, 64
Appeals, Grade 166
Appendix 200
Application Procedures, Financial 192
Applied Computer Science (A.S.) 74
Applied Computer Science (B.S.) 16
Applied Computer Science Minor 65
Arboretum & Gardens 178
Architectural Technology Option 61
Art (B.A.) 17
Graphic Design Option 19
Studio Art Option 19
Art (B.F.A.) 19
Graphic Design Option 20
Graphic Design/Studio Art Dual Option 20
Studio Art Option 21
Art Courses (ART) 92
Art Faculty 202
Art Gallery, Thorne-Sagendorph 178
Art Minor 65
Artists-in-Residence 209
Arts Center on Brickyard Pond, Redfern 178
Aspire Program 174
Assessment of Non-College Learning 174
Assistantships, Graduate 81
Associate Degree Programs 75
Astronomy Courses (ASTR) 94
Athletic Eligibility 164
Athletic Training Option (Physical Education, B.S.) 53
Athletics, Intercollegiate 197
Attendance Policy, Class 163
Auditing 164
Awards Conferred by the College 218
Bachelor of Fine Arts 19
Bachelor’s Degree Programs 12
Bachelor of Arts (B.A.) 12
Bachelor of Science (B.S.) 12
Biology (B.A.) 21
Biology (B.S.) 22
Biology Courses (BIO) 94
Biology Faculty 203
Biology Minor 65
Board of Trustees 200
BodyWorks Fitness Center 178
Bookstore, College 197
Calendar, Academic 10
Campus Map 220
Campus Values 6
Career Advising 174
Catalog Contact 5
Catalog Limitations 5
Catalog Policy 162
Center for Writing 176
Certification Programs. See Teacher Education Programs
Chemical Dependency (A.S.) 75
Chemistry (B.A.) 23
Chemistry (B.S.) 24
Chemistry Courses (CHEM) 98
Chemistry Faculty 203
Chemistry Minor 65
Chemistry-Physics (B.S.) 25
Professional Option 25
Teacher Certification Option 25
Child Development Center (CDC) 179
Class Status 163
Clubs 199
Cohen Center for Holocaust Studies 179
College History 6
College Level Examination Program (CLEP) 175
College Mission & Values 6
College Senate (Governance) 162
College Withdrawal 171
Commencement Honors 172
Commencement Policy 171
Communication (B.A.) 25
Communication Studies Option 26
Philosophy Option 27
Communication Courses (COMM) 101
Communication Faculty 202
Communication Minor 65
Community Research Center 179
Community Service Award 219
Community Service Clubs 199
Community Services 198
Computer Facilities 180
Computer Mathematics (B.S.) 27
Computer Science, Applied (A.S.) 74
Computer Science, Applied Minor 65
Computer Science Courses (CS) 102
Computer Science Faculty 203
Continuation Program 184
Continuing Education and Extended Studies 186
Conversion Programs. See Teacher Education Programs
Cooperative Education 175
Cost Estimates 191
Counseling Center 196
Course Load
Graduate 81
Undergraduate 162
Course Numbering System 90
Course Repetition 165
Course Withdrawal 164
Courses of Instruction (Descriptions) 90
Credits by Examination 175
Credits by Portfolio Assessment 175
Curriculum & Instruction Courses (ESECCI, M.Ed.) 108
Curriculum & Instruction Option (M.Ed.) 82
Curriculum Materials Library (CML) 180
Dance. See Theatre and Dance
Dance Minor 66
Dean’s List 171
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declaration of Major</td>
<td>165</td>
</tr>
<tr>
<td>Degree Requirements (Graduate)</td>
<td>80</td>
</tr>
<tr>
<td>Degrees Awarded</td>
<td></td>
</tr>
<tr>
<td>Associate</td>
<td>9</td>
</tr>
<tr>
<td>Bachelor</td>
<td>8</td>
</tr>
<tr>
<td>Graduate</td>
<td>9</td>
</tr>
<tr>
<td>Dining Service</td>
<td>195</td>
</tr>
<tr>
<td>Disability Services, Office of</td>
<td>196</td>
</tr>
<tr>
<td>Dismissal (Graduate)</td>
<td>81</td>
</tr>
<tr>
<td>Distinguished Teacher Awards</td>
<td>219</td>
</tr>
<tr>
<td>Dual Major</td>
<td>165</td>
</tr>
<tr>
<td>Early Childhood Development Option</td>
<td>29</td>
</tr>
<tr>
<td>Earth Science. See Geology</td>
<td></td>
</tr>
<tr>
<td>Earth Science Courses. See Geology, Physics</td>
<td></td>
</tr>
<tr>
<td>Economics (B.A.)</td>
<td>28</td>
</tr>
<tr>
<td>Economics Courses (ECON)</td>
<td>105</td>
</tr>
<tr>
<td>Economics Faculty</td>
<td>203</td>
</tr>
<tr>
<td>Economics Minor</td>
<td>66</td>
</tr>
<tr>
<td>Education (B.S.)</td>
<td>4, 29</td>
</tr>
<tr>
<td>Early Childhood Development Option</td>
<td>29</td>
</tr>
<tr>
<td>Elementary Education Option</td>
<td>30</td>
</tr>
<tr>
<td>Elementary Special Education Option</td>
<td>31</td>
</tr>
<tr>
<td>Middle/Junior High School Mathematics Option</td>
<td>30</td>
</tr>
<tr>
<td>Secondary Special Education Option</td>
<td>31</td>
</tr>
<tr>
<td>Education (graduate and post-baccalaureate)</td>
<td>79</td>
</tr>
<tr>
<td>Education/Early Childhood Faculty</td>
<td>203</td>
</tr>
<tr>
<td>Education/Special Education/Early Childhood Courses</td>
<td>106</td>
</tr>
<tr>
<td>Education: Curriculum &amp; Instruction Courses (ESECCI, M.Ed.)</td>
<td>108</td>
</tr>
<tr>
<td>Education: Educational Leadership Courses (ESECEL, M.Ed.)</td>
<td>109</td>
</tr>
<tr>
<td>Education: School Counselor Courses (ESECSC, M.Ed.)</td>
<td>110</td>
</tr>
<tr>
<td>Education: Special Education Courses (ESECSP, M.Ed.)</td>
<td>110</td>
</tr>
<tr>
<td>Educational Leadership Option (M.Ed.)</td>
<td>83</td>
</tr>
<tr>
<td>Electives (Graduate)</td>
<td>80</td>
</tr>
<tr>
<td>Elementary Education Option (Education, B.S.)</td>
<td>30</td>
</tr>
<tr>
<td>Elementary Special Education Option (Education, B.S.)</td>
<td>31</td>
</tr>
<tr>
<td>Eligibility, Athletic</td>
<td>164</td>
</tr>
<tr>
<td>Elliot Center</td>
<td>174</td>
</tr>
<tr>
<td>Emeriti Faculty</td>
<td>210</td>
</tr>
<tr>
<td>Employment Opportunities (Work Study)</td>
<td>194</td>
</tr>
<tr>
<td>Engineering</td>
<td>32</td>
</tr>
<tr>
<td>English (B.A.)</td>
<td>33</td>
</tr>
<tr>
<td>English as a Second Language. See Modern Languages</td>
<td></td>
</tr>
<tr>
<td>English as a Second Language (ESL) courses</td>
<td>114</td>
</tr>
<tr>
<td>English Courses (ENG)</td>
<td>111</td>
</tr>
<tr>
<td>English Faculty</td>
<td>202</td>
</tr>
<tr>
<td>English Language Competence</td>
<td>165</td>
</tr>
<tr>
<td>English Minor</td>
<td>66</td>
</tr>
<tr>
<td>Enrollment Status (Definition)</td>
<td>162</td>
</tr>
<tr>
<td>Environmental Studies (B.S.)</td>
<td>34</td>
</tr>
<tr>
<td>Environmental Policy Option</td>
<td>35</td>
</tr>
<tr>
<td>Environmental Science Option</td>
<td>35</td>
</tr>
<tr>
<td>Environmental Studies Courses (ENST)</td>
<td>115</td>
</tr>
<tr>
<td>Environmental Studies Minor</td>
<td>66</td>
</tr>
<tr>
<td>Faculty</td>
<td>202, 204</td>
</tr>
<tr>
<td>Faculty Distinction in Research/Scholarship Award</td>
<td>219</td>
</tr>
<tr>
<td>Fees, Tuition &amp;</td>
<td>188</td>
</tr>
<tr>
<td>Film Courses (FILM)</td>
<td>115</td>
</tr>
<tr>
<td>Film Faculty</td>
<td>202</td>
</tr>
<tr>
<td>Film Studies Center</td>
<td>179</td>
</tr>
<tr>
<td>Film Studies (B.A.)</td>
<td>36</td>
</tr>
<tr>
<td>Film Studies Minor</td>
<td>66</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>192</td>
</tr>
<tr>
<td>Financial Responsibility, Student</td>
<td>192</td>
</tr>
<tr>
<td>Fitness Center (BodyWorks)</td>
<td>178</td>
</tr>
<tr>
<td>Fitness Classes</td>
<td>199</td>
</tr>
<tr>
<td>Foreign Students. See International Students</td>
<td></td>
</tr>
<tr>
<td>Forgiveness Policy</td>
<td>165</td>
</tr>
<tr>
<td>Fraternities &amp; Sororities (Greeks)</td>
<td>199</td>
</tr>
<tr>
<td>Free Application for Federal Student Aid 192</td>
<td>192</td>
</tr>
<tr>
<td>French (B.A.)</td>
<td>37</td>
</tr>
<tr>
<td>French Courses (FR)</td>
<td>117</td>
</tr>
<tr>
<td>French Faculty</td>
<td>202</td>
</tr>
<tr>
<td>French Minor</td>
<td>66</td>
</tr>
<tr>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts (B.A.)</td>
<td>13</td>
</tr>
<tr>
<td>Bachelor of Science (B.S.)</td>
<td>13</td>
</tr>
<tr>
<td>General Science (B.A.)</td>
<td>38</td>
</tr>
<tr>
<td>Elementary Certification</td>
<td>38</td>
</tr>
<tr>
<td>Middle School Certification</td>
<td>38</td>
</tr>
<tr>
<td>General Special Education</td>
<td>89</td>
</tr>
<tr>
<td>General Studies Curricula</td>
<td>73</td>
</tr>
<tr>
<td>Associate in Arts (A.A.)</td>
<td>73</td>
</tr>
<tr>
<td>Associate in Science (A.S.)</td>
<td>74</td>
</tr>
<tr>
<td>Geography (B.A.)</td>
<td>39</td>
</tr>
<tr>
<td>Geography Courses (GEOG)</td>
<td>117</td>
</tr>
<tr>
<td>Geography Faculty</td>
<td>203</td>
</tr>
<tr>
<td>Geography Minor</td>
<td>67</td>
</tr>
<tr>
<td>German Courses (GER)</td>
<td>121</td>
</tr>
<tr>
<td>German Faculty</td>
<td>202</td>
</tr>
<tr>
<td>German Minor</td>
<td>67</td>
</tr>
<tr>
<td>Governance</td>
<td>162</td>
</tr>
<tr>
<td>Grade Appeals</td>
<td>166</td>
</tr>
<tr>
<td>Grade Point Average, Determination of (G.P.A.)</td>
<td>167</td>
</tr>
<tr>
<td>Grading System</td>
<td>166</td>
</tr>
<tr>
<td>Graduate Assistantships</td>
<td>81</td>
</tr>
<tr>
<td>Graduate Course Policy</td>
<td>81</td>
</tr>
<tr>
<td>Graduate Degrees Awarded</td>
<td>9</td>
</tr>
<tr>
<td>Graduate Programs</td>
<td>79</td>
</tr>
<tr>
<td>Graduate Studies</td>
<td>9, 79</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>80</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>172</td>
</tr>
<tr>
<td>Granite State Awards</td>
<td>219</td>
</tr>
<tr>
<td>Graphic Design. See Art B.A.</td>
<td></td>
</tr>
<tr>
<td>Graphic Design/Studio Art Dual Option</td>
<td>20</td>
</tr>
<tr>
<td>Graphic Design Option</td>
<td>19</td>
</tr>
<tr>
<td>Greeks</td>
<td>199</td>
</tr>
<tr>
<td>Handicapped Students. See Students with Disabilities</td>
<td></td>
</tr>
<tr>
<td>Health Science (B.S.)</td>
<td>4, 41</td>
</tr>
<tr>
<td>Health Promotion and Fitness Option</td>
<td>41</td>
</tr>
<tr>
<td>Nutrition Option</td>
<td>42</td>
</tr>
<tr>
<td>Substance Abuse/Addictions Option</td>
<td>43</td>
</tr>
<tr>
<td>Health Science Courses (HLSC)</td>
<td>121</td>
</tr>
<tr>
<td>Health Science Faculty</td>
<td>203</td>
</tr>
<tr>
<td>Health Services</td>
<td>196</td>
</tr>
<tr>
<td>HelpDesk</td>
<td>180</td>
</tr>
<tr>
<td>History (B.A.)</td>
<td>44</td>
</tr>
<tr>
<td>History, College</td>
<td>6</td>
</tr>
<tr>
<td>History Courses (HIST)</td>
<td>124</td>
</tr>
<tr>
<td>History Faculty</td>
<td>202</td>
</tr>
<tr>
<td>History Minor</td>
<td>67</td>
</tr>
<tr>
<td>Holocaust Studies, Cohen Center for</td>
<td>179</td>
</tr>
<tr>
<td>Holocaust Studies Courses (HOLO)</td>
<td>127</td>
</tr>
<tr>
<td>Holocaust Studies Faculty</td>
<td>202</td>
</tr>
<tr>
<td>Holocaust Studies Minor</td>
<td>4, 68</td>
</tr>
<tr>
<td>Honor Societies</td>
<td>199</td>
</tr>
<tr>
<td>Honorary Degrees</td>
<td>218</td>
</tr>
<tr>
<td>Honors, Commencement</td>
<td>172</td>
</tr>
<tr>
<td>Honors Program, Psychology</td>
<td>57</td>
</tr>
<tr>
<td>Individualized Major (B.A. &amp; B.S.)</td>
<td>44</td>
</tr>
<tr>
<td>Information Technology Group</td>
<td>180</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>197, 199</td>
</tr>
<tr>
<td>Interdisciplinary Courses (IDAH, IDSS, &amp; IDSM)</td>
<td>128</td>
</tr>
<tr>
<td>International Exchange. See National and International Exchange</td>
<td></td>
</tr>
<tr>
<td>International Students Admission</td>
<td>185</td>
</tr>
<tr>
<td>International Studies Minor</td>
<td>68</td>
</tr>
<tr>
<td>Intramural Sports</td>
<td>199</td>
</tr>
<tr>
<td>Journalism (B.A.)</td>
<td>46</td>
</tr>
<tr>
<td>Journalism Courses (JRN)</td>
<td>129</td>
</tr>
<tr>
<td>Journalism Faculty</td>
<td>202</td>
</tr>
<tr>
<td>Journalism Minor - Broadcast Media</td>
<td>68</td>
</tr>
<tr>
<td>Journalism Minor - Print Media</td>
<td>69</td>
</tr>
<tr>
<td>Judicial System, College</td>
<td>195</td>
</tr>
<tr>
<td>KSC Courses (KSC)</td>
<td>130</td>
</tr>
<tr>
<td>Language Learning Center, Quadside</td>
<td>180</td>
</tr>
<tr>
<td>Language Requirement</td>
<td>12</td>
</tr>
<tr>
<td>Leadership Option, Educational (M.Ed.)</td>
<td>83</td>
</tr>
<tr>
<td>Leave of Absence, Academic</td>
<td>81, 171</td>
</tr>
<tr>
<td>Library, Wallace E. Mason</td>
<td>181</td>
</tr>
<tr>
<td>Library Faculty</td>
<td>202</td>
</tr>
<tr>
<td>Link</td>
<td>186</td>
</tr>
<tr>
<td>Loans</td>
<td>193</td>
</tr>
<tr>
<td>Major (Definition)</td>
<td>12</td>
</tr>
<tr>
<td>Major, Declaration of</td>
<td>165</td>
</tr>
<tr>
<td>Major, Dual</td>
<td>165</td>
</tr>
<tr>
<td>Majors, Academic</td>
<td>8</td>
</tr>
<tr>
<td>Management (B.S.)</td>
<td>46</td>
</tr>
<tr>
<td>Management Courses (MGT)</td>
<td>131</td>
</tr>
<tr>
<td>Management Faculty</td>
<td>203</td>
</tr>
<tr>
<td>Management Minor</td>
<td>69</td>
</tr>
<tr>
<td>Map, Campus</td>
<td>220</td>
</tr>
<tr>
<td>Master of Education (M.Ed.)</td>
<td>82</td>
</tr>
<tr>
<td>Curriculum and Instruction Option</td>
<td>82</td>
</tr>
<tr>
<td>Educational Leadership Option</td>
<td>83</td>
</tr>
<tr>
<td>School Counselor Option</td>
<td>84</td>
</tr>
<tr>
<td>Special Education Option</td>
<td>86</td>
</tr>
</tbody>
</table>

INDEX 223
Master's Degree Programs 79
Math Center 176
Mathematics (B.A.) 47
Applied Math Option 47
Elementary Option 48
Middle/Junior High Option 48
Pure Math Option 47
Secondary Option 48
Mathematics Courses (MATH) 133
Mathematics Education Minor 69
Mathematics Faculty 203
Mathematics Minor 69
Mathematics-Physics (B.S.) 48
Matriculated Student (Definition) 182
Meteorology Courses (MET) 136
Middle/Junior High School Mathematics Education Option 30
Minors 64
Mission, College 6
Modern Languages Courses (ML) 136
Modern Languages Faculty 202
Multicultural Student Affairs, Office of 181
Music (B.A.) 49
Music Faculty 203
Music Courses (MU) 136
Music Education (B.M.) 4, 50
Music Faculty 202
Music Minor 69
Music Performance (B.M.) 51
National and International Exchange 176
New England Regional Student Program (NERSP) 187
New Hampshire College & University Council (NHUCU) 187
New Start Program 184
Non-College Learning, Assessment of 174
Numbering System (Courses) 90
Nutrition. See Health Science
Ombudsman 194
Operating Staff 215
Option (Definition) 12
Orientation 196
OSHA Training Institute 181
Philosophy Courses (PHIL) 140
Philosophy Faculty 202
Philosophy Minor 70
Physical Education (B.S.) 4, 52
Athletic Training Option 53
Teacher Certification Option 54
Physical Education Courses (PE) 142
Physical Education Faculty 203
Physical Science (B.A.) 55
Physics. See Chemistry-Physics; Mathematics-Physics
Physics Courses (PHYS) 146
Physics Faculty 203
Physics Minor 70
Placement Office. See Career Services
Political Science Courses (POSC) 147
Political Science Faculty 203
Political Science Minor 70
Portfolio Assessment, Undergraduate 175
Post-Baccalaureate Teacher Certification Programs 88
Post-Master’s Certification Programs 87
Principal Administrators 204
Privacy Hold Policy 172
Probation and Suspension, Academic 167
Product Design and Development Option (Technology Studies) 61
Professional/Administrative/Technical Staff (PAT) 211
Programs of Study 8
Progress Reports 167
Psychology (B.A.) 56
Psychology Courses (PSYC) 148
Psychology Faculty 203
Psychology Honors Program 57
Psychology Minor 70
Publications & Media, Student 199
Quads, Language Learning Center 180
Readmission Requirements 183
Recreation Center 197
Recreational Clubs 199
Recreational Sports 197, 199
Redfern Arts Center on Brickyard Pond 178
Refund Policy 191
Religious Advisement 197
Residence Policy 189
Residential Life 195
Residential Hall Association 199
ROTC Program 177
Safety Studies (B.S.) 57
Safety Studies Minor 70
Scholarships & Grants 193
School Counselor Courses (ESECSC, M.Ed.) 110
School Counselor Option (M.Ed.) 84
Second Degree, Earning a Graduate 81
Undergraduate 166
Secondary Special Education Option (Education, B.S.) 31
Senate, College (Governance) 162
Small Business Institute (SBI) 181
Social Science (B.A.) 58
Social Science Courses (SOSC) 150
Sociology (B.A.) 59
Sociology Courses (SOC) 150
Sociology Faculty 203
Sociology Minor 71
Sororities, Fraternities & (Greeks) 199
Spanish (B.A.) 60
Spanish Courses (SP) 152
Spanish Faculty 202
Spanish Minor 71
Special Education Courses (ESECSP, M.Ed.) 110
Special Education Courses (SPED) 153
Special Education Faculty 203
Special Education Option (M.Ed.) 86
Special Interest Clubs 199
Specialization (Definition) 12
Sports Clubs 199
Statistics Minor 71
Student Center, Lloyd P. Young 197
Student Financial Responsibility 192
Student Financial Services 188
Student Governance & Judicial System 195
Student Life 195
Student Organizations 199
Student Publications & Media 199
Student Records 172
Students’ Responsibility 162
Students with Disabilities, Services for 196
Studio Art Option 21
Substantive Rules and Definitions 189
Summer Link 186
Summer Sessions 186
Support Programs, Academic 174
Suspension, Academic Probation & 167
Teacher Education/Certification Programs 4, 77
Technology, Design and Safety Courses (TDS) 154
Technology, Design and Safety Faculty 203
Technology Studies (A.S.) 75
Technology Studies (B.S.) 4, 61
Architectural Technology Option 61
Product Design and Development Option 61
Technology Education Option 62
Technology Studies Minor 71
Theatre and Dance (B.A.) 62
Acting/Directing Option 63
Critical Studies Option 63
Design Option 63
Design/Technical Theatre Option 63
Theatre and Dance Courses (TAD) 158
Theatre and Dance Faculty 202
Theatre Minor 71
Thorne-Sagendorph Art Gallery 178
Time Limitations, Graduate 81
Transcript 172
Transfer of Credit
Graduate 81
Undergraduate 184
Transfer Students 184
Trustees, Board of 200
Tuition & Fees 188
Tuition Rates, Determination of 189
Undergraduate Admission 182
Undergraduate Degrees Awarded 8
Undergraduate Programs 11
Upward Bound 186
Veterans Services 198
Visits, Inquiries 2
Vocational Education (B.S.) 4
Withdrawal (College) 171
Withdrawal (Course) 164
Women’s Studies Courses (WS) 161
Women’s Studies Faculty 202
Women’s Studies Minor 71
Work Study (Employment Opportunities) 194
Writing, Center for 176
Writing Minor 72