Welcome to the 2002-03 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 towards 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 our web pages at www.keene.edu. Send letters to a specific person or office at:

Keene State College
229 Main Street
Keene NH 03435

Or call:
1-603-352-1909
1-800-KSC-1909
1-800-RELAYNH (1-800-735-2964) TDD

Visitors are always welcome. 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 1-800-KSC-1909 or 603-358-2276, or sending e-mail to admissions@keene.edu.
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What’s New for 2002-03

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 of instruction, 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 deemed 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 2002-03 KSC Undergraduate and Graduate Catalog.

Undergraduate Programs

Baccalaureate Degrees

The most significant revisions include:

General Education – The Arts & Humanities literature requirement has been updated, and the “Fine Arts” requirement (i.e., one course in Art, Film Studies, etc.) excludes courses from the Communication discipline.

Art – Establishes a program retention standard for BA Art, Graphic Design Option.

Communication – Adds an option in Philosophy.

Film Studies – Establishes BA Film Studies as an independent program. Formerly an option within BA Theatre, Dance and Film.

Journalism – Requires a grade of C or better for each Journalism course, or Journalism course substitution required for the major.


Physical Education – Establishes a program retention standard, and technical standards (ADA) for BS Physical Education, Athletic Training Option.

Theatre and Dance – Establishes BA Theatre and Dance as an independent program. Formerly an option within BA Theatre, Dance and Film.

Vocational Education – Program is on admissions/institutional hold.

Minors

Addition of a minor in Holocaust Studies.

Graduate Programs

Master of Education – M.Ed. Special Education Option is on admissions/institutional hold.

Post-Master’s Certification – P.M. Special Education EH and LD are on admissions/institutional hold.

Policy and Process

Academic Minors

All General Education-eligible courses required by a minor may also satisfy General Education requirements. Maximum overlap of nine credits between a major and minor has been established.
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 2615.

Catalog Limitations
This catalog contains policies, programs, and procedures of Keene State College in effect at the time of preparation, January 2002. 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 to 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.

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 Dean for Student Affairs. When necessary, class locations are changed to accommodate the requests of students with disabilities. Further inquiries may also be addressed to the Director, Office of Civil Rights, U.S. Department of Education, Washington, DC 20201.
2002-03 Academic Calendar

FALL SEMESTER - 2002

AUGUST
24 Residence halls open for new students at 9 a.m.
25 Residence halls open for returning students at 9 a.m.
26 Classes and Add/ Drop begin at 8 a.m.
30 Add/ Drop period ends at 5 p.m.

SEPTEMBER
2 Labor Day holiday
3 Course withdrawal (W) begins at 8 a.m.
7-8 Rosh Hashanah*
16 Yom Kippur*

OCTOBER
7 Second Quarter begins
11 Midsemester break (1 day only) for faculty, students
20 Fall Honors Convocation

NOVEMBER
8 Last day to withdraw from a course
11 Veterans Day holiday observed
26 Classes end at 9:30 p.m.
27 Thanksgiving recess begins
   Residence halls close at noon

DECEMBER
1 Residence halls re-open at 10 a.m.
2 Classes resume at 8 a.m.
6 Classes end at 5 p.m.
9 Reading Day
   Final exams begin at 6 p.m.
13 Final exams end at 5:30 p.m.
14 Residence halls close at noon

SPRING SEMESTER - 2003

MARCH
10 Fourth Quarter begins
14 Spring vacation begins at 4:30 p.m.
   Residence halls close at 6 p.m.
23 Residence halls re-open at 10 a.m.
24 Classes resume at 8 a.m.

APRIL
11 Last day to withdraw from a course
17 Passover*
18 Good Friday*
20 Easter*

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

SUMMER SEMESTER I - 2003

MAY
18 Residence halls open at 1 p.m.
19 Classes and Add/ Drop begin at 7:30 a.m.
21 Add/ Drop period ends at 4:30 p.m.
22 Course withdrawal (W ) begins at 7:30 a.m.
26 Memorial Day holiday

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

SUMMER SEMESTER II - 2003

JUNE
29 Residence halls open at 1 p.m.
30 Classes and Add/ Drop begin at 7:30 a.m.

JULY
2 Add/ Drop period ends at 4:30 p.m.
3 Course withdrawal (W ) begins at 7:30 a.m.
4 Fourth of July holiday
25 Course withdrawal (W ) period ends

AUGUST
8 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.
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, and
- 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, and
- 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 non-credit 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 Mt. 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 4,900 full- and part-time students, and offers more than 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 non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate 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 which 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 to the above, 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*
Elementary Certification

General Science, BA*
Middle School Certification

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
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

Departmental Honors Program

Safety Studies, BS

Social Science, BA*
MINORS

- American Studies
- Applied Computer Studies
- Art
- Biology
- Chemistry
- Communication
- Dance
- Driver and Traffic Safety
- 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
- 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

GRADUATE STUDIES

- Certification is available in each graduate program
- MASTER OF EDUCATION (M.ED.)
  - Curriculum & Instruction
  - Educational Leadership
  - School Counselor
- Special Education
  (program currently under review; institutional hold on admissions)
- POST-MASTER'S CERTIFICATION PROGRAM
  - Educational Leadership
  - School Counselor
- Special Education EH and LD
  (program currently under review; institutional hold on admissions)

*Sociology, BA
*Spanish, BA

Technology Studies, BS

- options in
  - Architectural Technology
  - Product Design & Development
  - Technology Education

Theatre and Dance, BA

- options in
  - Acting/Directing
  - Critical Studies
  - Dance
  - Design/Technical Theatre

Vocational Education, BS

(program currently under review; institutional hold on admissions)

*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.
Undergraduate Programs

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, there may have been program changes subsequent to the 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 Division 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 as demonstrated by one of the following:

1. satisfactory completion of one semester of a modern language at the intermediate level, or higher
2. satisfactory completion of a standardized examination
3. substitution of an appropriate modern language course at the intermediate level from another college or university

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.

Questions concerning the language requirement should be directed to the Chair of the Modern Languages Department.
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 which 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
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
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.

B. Arts and Humanities
A minimum of five courses totaling at least 15 credits as follows:

- One course in literature, which may be any 200-300 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.
- Two courses from Arts and Humanities disciplines: 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
A minimum of four courses totaling at least 12 credits in three or more of the Social Sciences disciplines: Economics, Geography, Political Science, Psychology, Sociology/Anthropology, or an approved interdisciplinary course (WS 201 or an IDSS course).

D. Sciences/Mathematics
A minimum of four courses totaling at least 12 credits as follows:

- One course in Biology
- One course in the Physical Sciences (Astronomy, Chemistry, Geology, Meteorology, or Physics)
- Two courses from Sciences/Mathematics disciplines: Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, Physics, or an approved interdisciplinary course (designated IDSM).
American Studies

Bachelor of Arts

An interdisciplinary exploration of American culture. This major offers students the opportunity to gain a greater understanding of the American multicultural identity, its past and present cultural values, conflicts and experiences. Each American Studies major must confer with a core American Studies faculty member in planning a course of study. Courses applied to the General Education requirements will not apply to the American Studies major. Academic advisors will assist in the selection of electives to strengthen the individual student’s program.

LANGUAGE REQUIREMENT

(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS

(minimum) 42 credits

Introductory courses in Art (Art 111), Film Studies (FILM 270, 271), and Philosophy (PHIL 200) apply toward the Arts and Humanities component (B) of the General Education requirements, and basic courses in Anthropology (SOC 210), Political Science (POSC 201) and Sociology (SOC 201) may apply toward the Social Sciences component (C) of the General Education requirements.

MAJOR REQUIREMENTS

39 credits

At least 15 credits in the major must be at the 300-level or higher, including at least 3 credits at the 400-level.

AMST 210 Introduction to American Studies

Select one of the following:

ENG 245 Readings in American Indian Studies
AMST 250 Interpreting American Culture
ENG 280 Cultural Studies (when appropriate)
AMST 290 Special Topics (when appropriate)
ENG 290 Topics (when appropriate)
ENG 341 Early American Literature
ENG 342 19th Century American Literature
ENG 347 Modern American Indian Literature
ENG 381 Women Writers (when appropriate)

Select one of the following:

AMST 390 Critical Approaches
ENG 420 Single Figure (when appropriate)
AMST 490 Advanced Special Topics
ENG 490 Advanced Studies (when appropriate)
AMST 495 American Studies Seminar
ENG 495 Seminar (when appropriate)

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.

American Arts (two of the following)

ART 214, 290, 495, 498 (when appropriate)
MU 112, 116, 212, 218, (when appropriate)
FILM 290, 352, 355, 495/498 (when appropriate)
TAD 355
TAD 495/498 (when appropriate)

American History (three of the following)

HIST 253, 261, 262, 265, 266, 269, 290 (when appropriate), 305, 360-367, 490, 495/498 (when appropriate)

American Literature (two of the following)

ENG 280, 290 (when appropriate), AMST 290, ENG 341, 342, 343, 344, 345, 346, 347, 381, 390, 420, 495/498 (when appropriate)
SP 330

American Social Sciences (two of the following)

ECON 455, 490 (when appropriate)
GEOG 203, 341, 343, 345
POSC 211, 221, 311, 322, 332, 341, 381 (when appropriate)
SOC 313, 315, 321, 325, 370, 401, 425, 450, 472, 475, 490, 495/498 (when appropriate)

American Thought (one course)

ENG 346
HIST 261, 262, 393
PHIL 304, 490/498 (when appropriate)
SOC 313, 401

ELECTIVES

(minimum) 39 credits

The following courses do not fulfill any of the various requirements for the American Studies major; however, because of their interdisciplinary nature and/or partial concern with the American experience, they are designated as recommended general electives.

ECON 329, 340; GEOL 309; 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 insure electives within and outside the Computer Science discipline meet students’, 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 42 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
42 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 as well as the above listed requirements simultaneously, or 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 & 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) – 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 usage today, they appear in all disciplines, and

c. Two advanced courses (6 credits) 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.

The following CS courses fulfill CS major requirements:

a. Programming Core
   Replace CS 160 PC Hardware Fundamentals with 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 which 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 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. 10-20 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 which time, if there 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.

LANGUAGE REQUIREMENT
(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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

Graphical 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 (6 credits)
ART 348 Typography
ART 349 Intermediate Graphic Design
Two of the following courses (6 credits):
TDS 247 Print Production
ART 247 Illustration
ART 350 Electronic Imaging
ART 351 History of Graphic Design
ART 445 Topics in Graphic Design
400-level courses (6 credits)
ART 444 Advanced Graphic Design
ART 448 Portfolio

ELECTIVES
(minimum) 30 credits

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
(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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 Fundamentals of Graphic Design
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 Senior Studio (2 semesters, 6 credits)
(ART 445 Topics in Graphic Design may be repeated as topics change)

ELECTIVES
6 credits

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 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)
ART 496 Senior Studio
ART 495 Senior Seminar

GRAPHIC DESIGN COURSES (24 credits)
200-level courses (6 credits)
ART 245 Graphic Design Fundamentals
ART 246 Computers and Design
300-level courses (6 credits)
ART 348 Typography
ART 349 Intermediate Graphic Design
Two of the following (6 credits):
ART 247 Illustration
ART 350 Electronic Imaging
ART 351 History of Graphic Design
ART 445 Topics in Graphic Design
400-level courses (6 credits)
ART 444 Advanced Graphic Design
ART 448 Portfolio

ELECTIVES
6 credits

DEGREE REQUIREMENTS
120 credits

Studio Art Option (60 credits)

200-level courses (30 credits)
ART 225 Drawing II (2 semesters, 6 credits)
ART 208 Ceramics I
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 Senior Studio (2 semesters, 6 credits)

ELECTIVES
6 credits

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) 42 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 365 Plant Anatomy and Morphology
   BIO 351 Ornithology
   BIO 352 Entomology
   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
   * GEOL 201 Introductory Physical Geology

**ELECTIVES**

Choose additional courses to reach the total number of credits required for the degree.

**DEGREE REQUIREMENTS**
120 credits

**Biology**

*Bachelor of Science*

The B.S. 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 42 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

**Organisinal 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)*

BIO 451 Population Ecology *and* BIO 457 Research Methods: Ecology

BIO 452 Community and Ecosystem Ecology *and* BIO 457 Research Methods: Ecology

BIO 454 Ecological Physiology *and* BIO 457 Research Methods: Ecology or BIO 458 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 additional 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): *Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.*

**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
The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for 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) 42 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
(minimum) 25 credits

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

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

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

Settings
ESEC 450 Seminar: Education Principles

Practice
ESEC 460 Student Teaching

The following course is highly recommended:

Pedagogy
ESEC 387 Creating Social Contexts for Learning

DEGREE REQUIREMENTS
120 credits

Chemistry

Bachelor of Science

The BS 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) 42 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 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**

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**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) 42 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 221/225-222/226 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 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)**  
*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.*  

**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  

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

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**DEGREE REQUIREMENTS**  
126 credits (Professional Option) 
134 credits (Teacher Certification Option)  

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**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**  
(minimum) 4 credits  

One semester of a modern language at the intermediate level, or higher.  

**GENERAL EDUCATION REQUIREMENTS**  
(minimum) 42 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**  
39 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 210, 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**  
12 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  
JRN 200 Introduction to Mass Media
1. Communication Studies Option (27 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
JRN 310 Mass 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 and
FILM 350 Film Production II
JRN 201 News Writing I and
JRN 301 News Writing II
JRN 201 News Writing I 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
JRN 201 News Writing I
JRN 290 Special Topics
JRN 301 News Writing II
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
FILM 490 Advanced Special Topics
FILM 495 Seminar
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

2. Philosophy Option (27 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
FILM 353 Topics in Independent Film
JRN 290 Special Topics
JRN 201 News Writing I
JRN 301 News Writing II
JRN 302 Broadcast Journalism
PHIL 300 Ancient Philosophy
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) 42 credits

The required Physics and Computer Science courses may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

MAJOR REQUIREMENTS
52 credits

MATH 151 Calculus I
MATH 152 Calculus II
MATH 231 Linear Algebra
MATH 235 Discrete Mathematics

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.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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: Political Science, Psychology, Sociology/Anthropology, and 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.

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

**MAJOR REQUIREMENTS**
36 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ECON 201</td>
<td>Macroeconomics</td>
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<td>ECON 202</td>
<td>Microeconomics</td>
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<td>ECON 301</td>
<td>Intermediate Macroeconomics</td>
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<td>ECON 302</td>
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<td>ECON 320</td>
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<td>ECON 350 Race, Class, and Gender</td>
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<td></td>
<td>or ECON 375 Marxian Economics</td>
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<td>ECON 450</td>
<td>History of Economic Ideas</td>
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<td>ECON 491</td>
<td>Research Project</td>
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</table>

Electives: 12 credits of 300 level or above Economics courses

MATH 141 Introductory Statistics or PSYC 251 Psychological Statistics

**ELECTIVES**
(minimum) 42 credits

**DEGREE REQUIREMENTS**
120 credits

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**Education**

*Bachelor of Science*

The Education major has five tracks: Early Childhood Education, Elementary Education, Elementary/Special Education, Middle School Mathematics, and Secondary/Special Education. Recent revisions to the major have focused on infusing development, special education, technology and practice into the program. In addition, 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.

In addition, students are urged to select an advisor early in their programs. 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 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 may elect to fulfill requirements from any one of the following:

- American Studies
- Applied Computer Science
- Art (portfolio requirement)
- Biology
- Chemistry
- Chemistry-Physics
- Communication
- Computer-Mathematics
- Economics
- English
- Environmental Studies
- Film Studies
- French
- 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 will complete their second major in mathematics. Students selecting a major in Education and certification in Secondary/Special Education are required to choose a major from those leading to a secondary certification (see Teacher Education section of this catalog).

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

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

Arts and Humanities (B) – ENG 286 and a course in U.S. History.

Social Sciences (C) – a course in Geography.

Sciences/Mathematics (D) – a 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 have a second major in order to become certified to teach. This requirement provides students with an intensive exposure to an academic area.

One of the following majors must be completed (figures in parentheses are the credit requirements in the major):

American Studies (39), Applied Computer Science (54), Art (48), Biology (44 or 76), Chemistry (57), Chemistry-Physics (47), Communication (39), Computer Mathematics (52), Economics (36), English (36), Environmental Studies (87-94), Film Studies (40-47), French (47), Geography (36), Geology (40), History (39), Individualized Major (minimum 36), Journalism (48-54), Mathematics (42), Mathematics-Physics (46), Music (48), Psychology (37), Social Science (54), Sociology (30), Spanish (47), or Theatre and Dance (47-50).

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 Methods: Infant/Toddler/Preschool
ESEC 382 Methods: Primary
ESEC 386 Methods: Field Experience

Pedagogy
ESEC 387 Creating Social Contexts for Learning

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 460 Student Teaching

For students who opt to take Dual Certification in Elementary Education and Early Childhood Development, the following must be added:

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

Arts and Humanities (B) – a course in U.S. History; a course in Art; a course in Music.

Social Sciences (C) – a course in Geography.

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

For fulfillment of the Option requirements the following courses must be added to the above requirements:

ESEC 383 Methods: Intermediate
ESEC 465 (6 credits.) Student Teaching

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

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 credits
In partial fulfillment of the requirements, the following must be taken:

Arts and Humanities (B) – a course in U.S. History; a course in Art; a course in Music.

Social Sciences (C) – a course in Geography.

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

SECOND MAJOR REQUIREMENTS
One of the following majors must be completed (figures in parentheses are the credit requirements in the major):

American Studies (39), Applied Computer Science (54), Art (48), Biology (44 or 76), Chemistry (57), Chemistry-Physics (47), Communication (39), Computer Mathematics (52), Economics (36), English (36), Environmental Studies (87-94), Film Studies (40-47), French (47), Geography (36), Geology (40), History (39), Individualized Major (minimum 36), Journalism (48-54), Mathematics (42), Mathematics-Physics (46), Music (48), Psychology (37), Social Science (54), Sociology (30), Spanish (47), or Theatre and Dance (47-50).
OPTION REQUIREMENTS
40 credits
Orientation
ESEC 100 Intro 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 382 Methods: Primary
ESEC 383 Methods: Intermediate
ESEC 386 Methods: Field Experience
Pedagogy
ESEC 387 Creating Social Contexts for Learning
Systems
ESEC 450 Seminar: Educational Principles
Practice
ESEC 460: Student Teaching

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

SECOND MAJOR REQUIREMENTS
A major in mathematics must be completed.
(41-42 credits)

OPTION REQUIREMENTS
37 credits
Orientation
ESEC 100 Intro to Teaching

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

SECOND MAJOR REQUIREMENTS
A major in mathematics must be completed.
(41-42 credits)

OPTION REQUIREMENTS
37 credits
Orientation
ESEC 100 Intro to Teaching

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

SECOND MAJOR REQUIREMENTS
One of the following majors must be completed (figures in parentheses are the credit requirements in the major):
American Studies (39), Applied Computer Science (54),
Art (48), Biology (44 or 76), Chemistry (57), Chemistry-
Physics (47), Communication (39), Computer Mathematics (52), Economics (36), English (36), Environmental Studies (87-94), Film Studies (40-47), French (47), Geography (36), Geology (40), History (39), Individualized Major (minimum 36), Journalism (48-54), Mathematics (42),
Mathematics-Physics (46), Music (48), Psychology (37),
Social Science (54), Sociology (30), Spanish (47), or Theatre and Dance (47-50).
SECOND MAJOR REQUIREMENTS
One of the following majors must be completed (figures in parentheses are the credit requirements in the major):
- Biology (44 or 76), Chemistry (57), English (36), French (47), Geography (36), History (39), Mathematics (42), Music Education (99), Social Science (54), Sociology (30), Spanish (47), Chemistry-Physics (47), Geology (40), Physical Education Teacher Education (49), Technology Education (47).

OPTION REQUIREMENTS
55 credits

Orientation
ESEC 100 Intro 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 382 Methods: Primary
ESEC 383 Methods: Intermediate
ESEC 386 Methods: Field Experience

Pedagogy
ESEC 387 Creating Social Contexts for Learning

Systems
ESEC 450 Seminar: Educational Principles

Practice
ESEC 465 Student Teaching

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 430 Methods and Practicum: Elementary
SPED 465 Student Teaching

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
42 credits

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

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) 42 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.

MATHMATICS
MATH 151, 152, 251 Calculus Sequence
MATH 361 Differential Equations
PHYSICS
PHYS 241, 242, 245 University Physics I, II, III
COMPUTER SCIENCE
CS 180 FORTRAN

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 180 FORTRAN
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)

English

Bachelor of Arts

Students in the English major will study the historical development of English and American literature, but will also become familiar with contemporary developments that are changing and expanding the field. In practicing the discipline of close reading, students will analyze texts from both the traditional canon and competing traditions. They will also consider how new approaches to the discipline place those texts in larger cultural, social, and theoretical contexts, and how such approaches can challenge and expand our notions of the literary past. In developing critical and expressive writing skills, students will learn to appreciate the importance of literature as an ongoing human activity.

Students majoring in this field must complete a minimum of twelve 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 75 credits toward graduation and before completing 15 credits in English; this course is not open to seniors. Six of the twelve required courses must be at the 300-level and three of the twelve courses must be at the 400-level, for a total of nine courses at the 300 and 400-level. 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. One course must cover pre-1660 British literature and another course must cover pre-1800 British literature and another course must cover pre-1800 literature in any area.

LANGUAGE REQUIREMENT
(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 credits

Modern Language courses may apply towards 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 75 credits)

Select two of the following courses in British Literature (one from pre-1660 literature):
- ENG 220 Readings in English Literature
- ENG 321 Earlier English Literature
- ENG 322 Later English Literature
- ENG 323 Medieval Literature
- ENG 324 Chaucer
- ENG 325 Renaissance Literature
- 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

Select two of the following courses in American Literature:
- ENG 210 Introduction to American Studies
- ENG 240 Readings in American Literature
- ENG 245 Readings in American Indian Studies
- ENG 341 Early American Literature
- ENG 342 19th Century American Literature
- ENG 343 20th Century American Literature
- ENG 344 Studies in American Literature
- ENG 345 Black American Literature
- ENG 346 Transcendentalism
- ENG 347 Modern American Indian Literature

Select two of the following courses in Multicultural, World, or Continental Literature:
- ENG 245 Readings in American Indian Studies
- ENG 250 Readings in Continental Literature
- ENG 252 Literature of the Holocaust
- ENG 260 Readings in World Literature
- ENG 261 Classical Literature of Greece
- ENG 271 Caribbean Literature
- ENG 345 Black American Literature
- ENG 347 Modern American Indian Literature
- ENG 350 Studies in Continental Literature
- ENG 360 Studies in World Literature
- ENG 370 Studies in Literatures of the Americas
- ENG 382 Greek Myths
- ENG 383 The Fantastic in Literature

When appropriate, the following courses may be used to fulfill requirements in any of the three categories listed above:
- ENG 280 Cultural Studies
- ENG 285 Genre Studies
- ENG 290 Topics
- ENG 381 Women Writers
- ENG 390 Studies
- ENG 410 Theory
- ENG 420 Single Figure
- ENG 490 Advanced Studies

ENG 495 Seminar
ENG 498 Independent Study

Select one course in Theory:
- ENG 402 Theory & Practice
- ENG 410 Theory

Complete four additional English courses (12 credits)

English Teacher Certification

GENERAL EDUCATION REQUIREMENTS
For teacher certification in English (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).

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
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

* Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

ELECTIVES
42 credits

DEGREE REQUIREMENTS
120 credits
Environmental Studies

Bachelor of Science

Environmental Studies is an interdisciplinary program comprised of 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) 42 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 (3 credits). Thus many credits of the major may apply toward completion of General Education requirements.

MAJOR REQUIREMENTS

Environmental Studies Core (35 credits)

All Environmental Studies students must take the following common core of courses, giving them broad exposure to the wide range of fields of environmental study and background for further specialization:

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

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
ECON 340 Environmental Economics
GEOG 330 Natural Resource Management

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

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 BIOLOGY SPECIALIZATION (16-17 credits)

BIO 252/256 Ecology and Evolution
BIO 253 Physiology of Plants and Animals
BIO 452 Community and Ecosystems Ecology
BIO 454 Ecological Physiology
BIO 333 Invertebrate Zoology
BIO 334 Vertebrate Zoology
BIO 351 Ornithology
BIO 352 Entomology
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 Geographical Information Systems
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 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
ECON 340 Environmental Economics
GEOG 330 Natural Resource Management

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
BIO 253 Physiology of Plants and Animals
BIO 452 Community and Ecosystems Ecology
BIO 454 Ecological Physiology
BIO 333 Invertebrate Zoology
BIO 334 Vertebrate Zoology
BIO 351 Ornithology
BIO 352 Entomology
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 Geographical Information Systems
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.
GENERAL EDUCATION REQUIREMENTS
(minimum) 42 credits

MAJOR REQUIREMENTS
40-47 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 Super 8 film or video (as appropriate) 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. Students falling below this minimum will be placed on a one-semester probation, after which, if GPA has not risen to proper status, students will be dismissed from the program. Students may apply for acceptance to the Film program a maximum of two (2) times (thus, students accepted into the program but later dismissed may reapply once). Further applications will not be entertained.

FILM STUDIES CORE (25 CREDITS)

TAD 162 Design for Performing Arts
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
PHIL 350 Aesthetics
FILM 495 Seminar

OPTIONS (SELECT ONE):
a. Film Production (21 credits)
   FILM 350 Film Production II
   FILM 351 Intermediate Production Studio
   FILM 440 Advanced Production Techniques
   FILM 440 Advanced Production Techniques
   FILM 450 Film Production III
   FILM 450 Film Production IV
   FILM 452 Advanced Production Studio
b. Critical Studies (18 credits)
   FILM 352 Film Genres and Directors
   FILM 352 Film Genres and Directors
   FILM 352 Film Genres and Directors
   FILM 495 Seminar
   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 pro-
grams) or Quebec (semester and summer programs). All
students planning to study in a French-speaking country
must consult with the National and International Ex-
change 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 success-
ful 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 Lan-
guage faculty.

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

LANGUAGE REQUIREMENT
(minimum) 4 credits
One semester of a modern language at the intermediate
level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 credits
For teacher certification in French (secondary), the follow-
ing courses must be included in the General Education
requirements:

a. U.S. History course in the Arts and Humanities compo-
nent (B); a Geography course in the Social Sciences compo-
nent (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
34 credits
For teacher preparation in French (secondary), the follow-
ing courses are required:

*Courses designated with an asterisk require a minimum
of one to three hours of field work in the schools or service
learning.

Orientation
ESEC 100 Introduction to Teaching
Learners
ESEC 150 Development, Exceptionality, and Learning I*
ESEC 250 Development, Exceptionality, and Learning II
DEGREE REQUIREMENTS
120 credits

General Science
ELEMENTARY CERTIFICATION

Bachelor of Arts
The Bachelor of Arts in General Science, Elementary Certification program provides the student seeking elementary certification (K-8) with a broadly-based foundation in introductory-level science. It is ideal for the pre-service elementary teacher since it addresses national recommendations for improving science education with an activity and hands-on focus.

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) 42 credits
In partial fulfillment of the requirements the following must be taken:

Arts and Humanities (B): a course in art; a course in music; a course in U.S. history; Social Sciences (C): GEOG 105 Geography for Teachers or GEOG 204 Physical Geography; Sciences/Mathematics (D): MATH 171; MATH 172; MATH 120 or 130 or 151. The remaining Science requirements are fulfilled by core requirements.

MAJOR REQUIREMENTS
Science Core (34 credits)
ASTR 307 University Astronomy or ASTR 101 Elementary Astronomy
BIO 151 and BIO 152 Life: Diversity & Lab
BIO 153 and BIO 154 Life: Processes & Lab
BIO 252 Ecology & Evolution
CHEM 103 Fundamentals of Chemistry
CHEM 107 Fundamentals of Chemistry Lab
GEOL 201 Intro to Physical Geology
MET 225 Meteorology
PHYS 201 Phenomenal Science
IDSM 301 and IDSM 302 The Web of Science I & II

Optional Science Minor
(in addition to above Science requirements)
GEOL 202 plus 4 additional courses at 300 level or above selected under advisement of Geology faculty and major advisor

BIOLOGY (13 credits):
One of the following three lecture courses:
BIO 251 Genetics (3)
BIO 253 Physiology of Plants and Animals (3)
BIO 254 Cell Biology (3)

And one of the following three laboratory courses:
BIO 255 Experimental Genetics (2)
BIO 256 Ecology and Evolution Lab (2)
BIO 257 Experimental Physiology (2)

And Electives
8 Biology credits at the 300 level or higher

Education Core (40 credits)
ESEC 100 Intro to Teaching
ESEC 150 Dev., Except., Learning I
ESEC 250 Dev., Except., learning II
ESEC 281 Emerging/Evolving Literacy
ESEC 320 Ed. Environ. and Practices
ESEC 382 Methods: Primary
ESEC 383 Methods: Intermediate
ESEC 386 Methods: Field Experience
ESEC 387 Creating Social Contexts for Learning
ESEC 450 Seminar: Ed. Principles
ESEC 460 Student Teaching

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

DEGREE REQUIREMENTS
120 credits
General Science

MIDDLE SCHOOL CERTIFICATION

Bachelor of Arts

The Bachelor of Arts in General Science, Middle School Certification program provides the student seeking certification in General Science Education (Grades 5-9)* with the breadth and depth of competency in science required by state standards.

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) 42 credits

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

Arts and Humanities (B): a course in U.S. history; Social Sciences (C): GEOG 105 Geography for Teachers or GEOG 204 Physical Geography; Sciences/Mathematics (D): MATH 120 or 130 or 151. The remaining Science requirements are fulfilled by core requirements.

MAJOR REQUIREMENTS

Science Core (minimum 44 credits)
ASTR 307 University Astronomy or
ASTR 101 Elementary Astronomy
BIO 151 and BIO 152 Life: Diversity & Lab
BIO 153 and BIO 154 Life: Processes & Lab
BIO 252 Ecology & Evolution
CHEM 111 & CHEM 115 Gen Chem I/Exp Gen Chem I
CHEM 112 & CHEM 116 Gen Chem II/Exp Gen Chem II
GEOL 201 Intro to Physical Geology
MET 225 Meteorology
PHYS 201 Phenomenal Science
PHYS 210 History of Science

Specialization or Science Minor
In addition to the science core, either a specialization or a science minor must be completed:

(A) SPECIALIZATION: (minimum 9 credits)
Three or more additional courses at the 200 level or above in one of the following areas: Biology, Chemistry, or Geology.

(B) SCIENCE MINOR:
A minor in Biology, Chemistry, or Geology consists of the core courses plus additional courses noted below in the field of your choice.

Biology (13 credits):
One of the following lecture courses:
- BIO 251 Genetics
- BIO 253 Physiology of Plants and Animals
- BIO 254 Cell Biology

and one of the following laboratory courses:
- BIO 255 Experimental Genetics
- BIO 256 Experimental Ecology and Evolution
- BIO 257 Experimental Physiology

Biology Electives
8 Biology credits at the 300 or 400 level

Chemistry (15-20 credits)
CHEM 220/224 Fundamental Organic Chemistry and Lab or CHEM 221/225 – 222/226 Organic Chemistry I, II and Labs
CHEM 251/255 Quantitative Analysis and Lab

Chemistry Electives
6-7 Chemistry credits at the 300 or 400 level

Geology (minimum 15 credits)
GEOL 202 Historical Geology

Geology Electives
4 additional courses at the 300 or 400 level selected under advisement of Geology faculty and major advisor

Education Core (37 credits)
ESEC 100 Intro to Teaching
ESEC 150 Dev., Except., Learning I
ESEC 250 Dev., Except., Learning II
ESEC 282 Literacy in Content Areas
ESEC 320 Ed. Environ. and Practices
ESEC 384 Methods: Middle School
ESEC 386 Methods: Field Experience
ESEC 387 Creating Social Contexts for Learning
ESEC 450 Seminar: Ed. Principles
ESEC 460 Student Teaching

ELECTIVES
Select additional courses 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) 42 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 201 Introductory Sociology or SOC 210 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 U.S. (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 Intro to Remote Sensing
One of the following systematic fields of geography:
GEOG 303 Political Geography
GEOG 305 Economic Geography
GEOG 307 Urban Geography
GEOG 332 Water Resource Geography
GEOG 330 Natural Resource Management
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:
GEOL 309 Geomorphology
MET 225 Meteorology
SOC 210 Cultural Anthropology

ELECTIVES
(minimum) 45 credits

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

*Courses designated with an asterisk require 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) 42 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 and Sedimentation

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 Geographic Information Systems
GEOG 327 Intro to Remote Sensing
GEOL 206 Oceanography
MET 225 Meteorology

ELECTIVES
(minimum) 44 credits

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
BACHELOR’S DEGREE PROGRAMS

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. The major is completed by selecting one of three options: 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

44 – 76 credits

Health Science Core (29 credits)

HLSC 100 Drugs, Personal Health & Risk Assessment (1)
HLSC 101/PE 101 Health and Wellness Trends and Issues (3)
HLSC 102 Introduction to Health Science (1)
HLSC 201/PE 201 Physiology of Exercise (3)
HLSC 318 Health and Wellness in the Life Cycle (3)
HLSC 380 Alcohol: Model of Chemical Dependency (3)
HLSC 385 Behavior Change Facilitation (3)
HLSC 401 Health Promotion Methods (3)
HLSC 402 Health Promotion Management (3)
HLSC 495 Seminar: Health Science (3)
MGT 101 Introduction to Management (3)

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, the student 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 which need to be addressed. Once admitted, the student must then 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 courses. For transfer students, equivalent transferred courses may be considered if approved by the Admissions Committee.

HLSC 101 Drugs, Personal Health & Risk Assessment
HLSC 101/PE 101 Health and Wellness Trends and Issues
HLSC 102 Introduction to Health Science

GENERAL EDUCATION REQUIREMENTS

(minimum) 42 credits

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. They should be taken during the freshman year. PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements. COMM 171 or 175 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements. CHEM 103/107 Survey of Chemistry and Experimental Survey of Chemistry is a prerequisite of the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

HEALTH PROMOTION & FITNESS

OPTION REQUIREMENTS (28 credits)

PE 200 Applied Kinesiology (3)
PE 243 Resistance Training Program (1)
Nutrition Option (46 credits)
The Dietetics program is an American Dietetic Association (ADA)-approved curriculum, which 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, research, etc.

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, the student 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 which need to be addressed. Once admitted, the student must then officially declare his or her major through the Elliot Center.

ADMISSION CRITERIA
Overall GPA of 2.7, major GPA of 2.7 and C or better in the following Health Science courses. For transfer students, equivalent transferred courses may be considered if approved by the Admissions Committee.

HLSC 101 Drugs, Personal Health & Risk Assessment
HLSC 101/PE 101 Health and Wellness Trends and Issues
HLSC 102 Introduction to Health Science

GENERAL EDUCATION REQUIREMENTS
(minimum) 46 credits
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. They should be taken during the freshman year. PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements. COMM 175 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements. 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 (34 credits)
HLSC 150 Introduction to the Nutrition Profession (1)
HLSC 215 Nutrition Science and Application (3)
HLSC 216 Food & People Interaction (3)
HLSC 217 Nutrition Science Lab (1)
HLSC 310 Food Science (4)
HLSC 313/315 Foodservice Management/Lab (5)
HLSC 319 Life Cycle Nutrition Lab (1)
HLSC 410 Experimental Foods (4)
HLSC 415 Nutritional Biochemistry (3)
HLSC 416/417 Medical Nutrition Therapy/Lab (5)
HLSC 419 Nutrition Research Lab (1)
HLSC 473 Practicum: Nutrition (3)

Allied Disciplines (12 credits)
The following required courses are required for ADA certification:
BIO 153/154 Life: Processes and Lab (4)
BIO 315 Clinical Microbiology (4)
CHEM 220/224 Organic Chemistry and Lab (4)

ELECTIVES
(minimum) 5 credits

Substance Abuse/Addictions Option
(24 to 27 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, N.H.

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, the student 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 which need to be addressed. Once admitted, the student must then 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 courses. For transfer students, equivalent transferred courses may be considered if approved by the Admissions Committee.
HLSC 100 Drugs, Personal Health & Risk Assessment
HLSC 101/PE 101 Health and Wellness Trends and Issues
HLSC 102 Introduction to Health Science

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 credits
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. They should be taken during the freshman year. PSYC 101 General Psychology is a requirement of the major and may apply toward the Social Sciences component (C) of the General Education requirements. COMM 171 or 175 is a requirement of the major and may apply toward the Arts and Humanities component (B) of the General Education requirements. CHEM 103/107 Survey of Chemistry and Experimental Survey of Chemistry is a prerequisite of the major and may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

SUBSTANCE ABUSE/ADDICTIONS
OPTION REQUIREMENTS
24-27 credits
HLSC 214 Fundamentals of Nutrition (3)
HLSC 439 Internship in Chemical Dependency (3-6 credits)
HLSC 486 Assessment, Diagnosis, and Counseling (3)
HLSC 490 Special Topics in Chemical Dependency (9)
Plus an additional 6 credits must be elected from courses approved by advisor in areas of Substance Abuse and Addictions.

ELECTIVES
(minimum) 25-28 credits

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 lifelong 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**

*(minimum) 4 credits*

One semester of a modern language at the intermediate level, or higher.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 42 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. (Note: New Hampshire has no certification to teach History only.)

- ECON 201 Macroeconomics
- GEOG 101 Introduction to World Geography or GEOG 105 Themes in World Geography
- SOC 201 Introductory Sociology or SOC 210 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 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**

*(minimum) 42 credits*

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

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

**DEGREE REQUIREMENTS**

120 credits

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**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 the final 30 credits in the degree program.
Traditional and non-traditional students may propose an individualized major by observing the following policies and procedures.

**A. Processing the Individualized Major:**
1. Advisory Committee. The student selects an Advisor of Record from the principal discipline and an additional faculty member from each secondary discipline represented in the individualized major. All committee members must be full-time faculty.

2. A meeting of this committee is called to discuss the proposed major and to assist the student in designing the program of studies.

3. The proposed Individualized Major must be signed by the student and co-signed by members of the advisory committee 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* 42 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**
*minimum* 42 credits

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 B.A. totals 120 credits and a B.S. 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**

(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

**GENERAL EDUCATION REQUIREMENTS**

(minimum) 42 credits

**MAJOR REQUIREMENTS**

45-54 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>JRN 200</td>
<td>Introduction to Mass Media</td>
</tr>
<tr>
<td>JRN 201</td>
<td>News Writing I—Introductory</td>
</tr>
<tr>
<td>JRN 270-284</td>
<td>Journalism Lab (minimum 2 semesters)</td>
</tr>
<tr>
<td>JRN 290</td>
<td>Topics in Mass Media</td>
</tr>
<tr>
<td>JRN 317</td>
<td>Journalism Research Methods</td>
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<tr>
<td>JRN 310</td>
<td>Mass Media History and Theory</td>
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<tr>
<td>JRN 322</td>
<td>Media Ethics</td>
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<tr>
<td>JRN 301</td>
<td>News Writing II</td>
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<tr>
<td>JRN 302</td>
<td>Broadcast Journalism</td>
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<td>JRN 306</td>
<td>News Editing</td>
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<td>JRN 308</td>
<td>Radio Journalism</td>
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<tr>
<td>JRN 315</td>
<td>Television News Studio</td>
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<tr>
<td>JRN 401</td>
<td>Feature Writing</td>
</tr>
<tr>
<td>JRN 408</td>
<td>TV Journalism</td>
</tr>
<tr>
<td>JRN 410</td>
<td>Public Affairs Reporting</td>
</tr>
<tr>
<td>JRN 446</td>
<td>Community TV News</td>
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</tbody>
</table>

Select a minor in consultation with a Journalism academic advisor.

**ELECTIVES**

(minimum) 24 credits

**DEGREE REQUIREMENTS**

120 credits

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**Management**

**Bachelor of Science**

This career-oriented program, emphasizing management skills and building upon 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**

Writing competence is met by satisfactorily completing ENG 101 Essay Writing. The Management faculty strongly recommends, but does not require, ENG 202 Expository Writing. Speaking competence is met by satisfactorily completing COMM 171 Fundamentals of Speech. Economics competence is met by completing ECON 201 Macroeconomics and ECON 202 Microeconomics. MATH 120 Applied Algebra and Trigonometry is recommended 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) 42 credits

Courses in English and Communication may apply toward the Arts and Humanities component (B); courses in Economics and Psychology may apply toward the Social Sciences component (C); and the course in Mathematics may apply toward the Sciences/Mathematics component (D) of the General Education requirements.

**MAJOR REQUIREMENTS**

42 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 101</td>
<td>Introduction to Management</td>
</tr>
<tr>
<td>MGT 202</td>
<td>Quantitative Decision Making</td>
</tr>
<tr>
<td>MGT 213</td>
<td>Introduction to Accounting I</td>
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<tr>
<td>MGT 214</td>
<td>Introduction to Accounting II</td>
</tr>
<tr>
<td>MGT 301</td>
<td>Organizational Theory and Behavior</td>
</tr>
<tr>
<td>MGT 319</td>
<td>Financial Management</td>
</tr>
<tr>
<td>MGT 324</td>
<td>Human Resource Management</td>
</tr>
</tbody>
</table>
MGT 331 Principles of Marketing
MGT 345 Operations Management
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 3 credits can be taken from either Independent Study or Internship.

ELECTIVES
(minimum) 42 credits

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 Introduction to 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 Multivariate Calculus
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 Multivariate Calculus
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 Multivariate Calculus
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
(minimum) 35 credits
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

*Courses designated with an asterisk require 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) 42 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
46 credits
CS 140 Computer Programming
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
(minimum) 38 credits

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. Four specializations are available: History and Literature, Theory, Composition, and Music for Elementary Teachers. 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 musicianship/sight-singing sequence in the first year.

LANGUAGE REQUIREMENT
(minimum) 4 credits
One semester of a modern language at the intermediate level, or higher.
GENERAL EDUCATION REQUIREMENTS  
*(minimum) 42 credits*

MAJOR REQUIREMENTS  
*45-47 credits*

Core (32 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 lacking competence for MU 151 must take MU 131. MU 131 does not count for the major.
- MU 161, 162, 261, 262 Sight Singing 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):

**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 235 Performance Literature (2 credits)
    - MU 405 Counterpoint (2 credits)
    - MU 222 Musical Improvisation (1 credit)

**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 320 Arranging (2 credits)
    - MU 498 Independent Study (1-6 credits)

**COMPOSITION (14 credits)**
- MU 213 Composition I (2 credits)
- MU 214 Composition II (2 credits)
- MU 301, 302, 401 Applied Composition (2 credits each)
- MU 320 Arranging (2 credits)
- MU 405 Counterpoint (2 credits)

A student completing the Composition specialization is encouraged to consider the following courses as potential open electives:
- MU 211 Intro to Electronic Music (2 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 315 Conducting I (2 credits)
- MU 486 Twentieth Century Music

**MUSIC FOR ELEMENTARY TEACHERS (12 credits)**
- MU 207 Teaching Music to Children
  - Select nine credits from the following:
    - MU 105, 106 Voice Class I, II (1 credit each)
    - MU 110, 111 Guitar Class I, II (1 credit each)
    - 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)

**ELECTIVES**  
*31 – 33 credits*

Electives must include twelve credits outside of Music. At least one course in French or German is recommended.

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 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 30-40 minute senior recital, must be in the primary instrument or voice, and must be completed prior to student teaching. Participation in at least one performing ensemble appropriate to the student’s program (chosen from MU 172, 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.

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

**LANGUAGE REQUIREMENT**

*(minimum) 4 credits*

One semester of a modern language at the intermediate level, or higher.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 42 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);
- a Geography course in the Social Sciences component (C).

**MAJOR REQUIREMENTS**

99 credits

**Teacher Education**

28 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 Education. (MU 151, MU 152, MU 251, MU 252, MU 161, MU 162, MU 261, MU 262)

**Settings**

ESEC 320 Educational Environments and Practices

**Methodology**

This part of the knowledge base is taken within Music Education. (MU 255, MU 355, MU 358, MU 360)

**Pedagogy**

ESEC 387 Creating Social Contexts for Learning

**Systems**

ESEC 450 Seminar: Educational Principles

**Practice**

ESEC 460 Student Teaching

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

**Music Courses**

71 credits

*Courses marked with an asterisk must average 2.50 to qualify for student teaching.

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 Sight Singing I (1 credit)

MU 162 Sight Singing II (1 credit)

MU 172, MU 173, MU 174, MU 177, or MU 178 Ensembles (7 credits)

MU 220 Music Education Technology (1 credit)

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 255 Principles of Music Education (1 credit)

MU 261 Sight Singing III (1 credit)

MU 262 Sight Singing 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 320 Arranging (2 credits)

*MU 355 General Music K-12 (3 credits)

*MU 358 Choral Music Education (2 credits)

*MU 360 Instrumental Music Education (2 credits)

**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, MU 202 Applied Music (or appropriate combinations of secondary applied music study totaling 4 credits)
MU 237 Vocal Pedagogy

DEGREE REQUIREMENTS
141 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 30-40 minute recital on the primary instrument in the junior year and a 60-70 minute recital in the senior year are required. Participation in at least one performing ensemble appropriate to the student’s program (chosen from MU 172, 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.

Graduates who complete this degree are eligible for certification by the New Hampshire Music Teachers Association and the Music Teachers National Association.

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

LANGUAGE REQUIREMENT
(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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
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 Sight Singing I (1 credit)
MU 162 Sight Singing 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 Sight Singing III (1 credit)
MU 262 Sight Singing 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 Twentieth Century Music (3 credits)
Music Elective(s) (3 credits total)

And:

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

Or:

INSTRUMENTALISTS TAKE:
MU 211 Intro to Electronic Music (2 credits)
or MU 235 Performance Literature (Guitarists and pianists only – 2 credits)
MU 320 Arranging (2 credits)
MU 326 Applied Pedagogy (2 credits)

DEGREE REQUIREMENTS
128 credits
Physical Education

Bachelor of Science

This interdisciplinary program provides students with multidimensional professional preparation 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 of the options in the Physical Education Major. Specific requirements and standards are listed for each of the two options. 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, one or more additional semesters can be expected.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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
47-74 credits

Physical Education Core (15 credits)
PE 100 Foundations of Physical Education
PE 101/HLSC 101 Health and Wellness: Trends and Issues
PE 200 Applied Kinesiology
PE 201 Physiology of Exercise
PE 460 Measurement and Evaluation in Physical Education

1. Athletic Training Option (47 credits)
The Athletic Training Option is a CAAHEP (Certifying Agency for 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. Those students who intend to apply for admission to this option must enroll in PE 140 Orientation to Athletic Training for the fall semester and complete specific requirements including athletic training competencies and clinical hours in the Athletic Training Room.

The application process for admission to the Athletic Training Option begins the first week of fall semester for freshmen and transfers. Review of applicants and official notification of the results of this review occurs during the spring semester. 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
PE 493 Externship: Athletic Training following completion of courses leading up to and including junior level courses in the Physical Education major/Athletic Training option. The following criteria will be used:

Completion of a minimum of 90 credits.

Completion of the Athletic Training Option courses listed below with a ‘C’ or better.

- PE 240 Advanced First Aid
- PE 342 Therapeutic Modalities
- PE 241 Mechanics of Taping Techniques
- PE 373 Practicum: Athletic Training
- PE 242 Clinical Range of Motion
- PE 383 Internship: Athletic Training
- PE 243 Resistance Training Programs
- PE 440 Athletic Training II
- PE 244 Clinical Exercise Therapy
- PE 441 Athletic Training III
- PE 245 Manual Muscle Function Testing
- PE 493 Adv. Internship: Athletic Training
- PE 340 Athletic Training I

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 Educational Program at Keene State College 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 Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. 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 Educational Program must demonstrate:

1. the mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.

2. sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and 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 Orientation to Athletic Training
PE 240 Advanced First Aid
PE 241 Mechanics of Taping Techniques
PE 242 Clinical R.O.M.
PE 243 Resistance Training Programs
PE 244 Clinical Exercise Therapy
PE 245 Manual Muscle Function Testing
PE 340 Athletic Training I
PE 342 Therapeutic Modalities
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 (3 credits)
PE 483 Advanced Internship: Athletic Training (6 credits)
PE 493 Externship: Athletic Training (3 credits)

**2. Teacher Certification Option (62 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 notification of the results of this review would occur at the conclusion of the spring semester of the freshman year. Students applying must have completed PE 100 and PE 101/HLSC 101 from the PE Core and 4 credits of PE Major skills courses. For transfer students, the process would occur after one semester of attendance at KSC which must include a minimum of one course from the PE Core and 3 of the 4 skills courses from the freshman level skills sequence. When a student is not accepted, a consultation may 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
Students applying 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
PE 101/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 (34 credits)

Sophomore Year:
PE 255 Developmental Movement (Fall)
PE 283 Gymnastics (Spring)
PE 285 Volleyball (Spring)

Junior Year:
PE 265 Secondary Activities (Fall)
PE 282 Track and Field (Fall)
PE 287 Softball (Fall)
PE 256 Rhythms (Spring)
PE 268 Outdoor Skills (Spring)
PE 240 Advanced First Aid
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 (28 credits)

For teacher preparation in Physical Education (K-12) the following courses are required: *Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

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
ESEC 320 Educational Environments and Practices

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 460 Student Teaching

ELECTIVES
(minimum) 5 credits

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) 42 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

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

ELECTIVES

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

DEGREE REQUIREMENTS

120 credits

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.

GENERAL EDUCATION REQUIREMENTS

(minimum) 42 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. Prior to 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 Psychology
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
PSYC 332 Ethology
PSYC 340 Psychological Testing
PSYC 412 Youth in Transition
PSYC 425 Psychology of Women

C. EXPERIMENTAL PSYCHOLOGY
PSYC 355 Psychology of Learning
PSYC 357 Cognitive Processes

PSYC 451 Motivation
PSYC 453 Sensation and Perception

D. PERSONALITY/SOCIAL PSYCHOLOGY
PSYC 221 Social Psychology
PSYC 242 Personality
PSYC 321 Cross-Cultural Psychology
PSYC 340 Psychological Testing
PSYC 343 Humanistic and Transpersonal Psychology
PSYC 451 Motivation

ELECTIVES
(minimum) 41 credits

DEGREE REQUIREMENTS
120 credits

Psychology Honors Program
Motivated psychology students may participate in an advanced program of research culminating in graduation with Honors in Psychology. This program allows students to pursue supervised research or applications of psychology in greater depth than provided in course offerings. Students electing to participate in this program complete all requirements for the Psychology major plus 2 credits of PSYC 496 Honors Seminar and 6 credits of PSYC 499 Honors Research during the two semesters of the senior year. These credits may be in lieu of or in addition to elective credits used to fulfill the requirements for the Psychology major.

Admission to the Honors Program is based on:
1. Self-nomination after completion of 75 credits with an overall grade point average of 3.20.
2. Support of an Honors Committee consisting of a faculty sponsor and two other faculty members, one of whom may be from a department other than Psychology. The Honors Committee will review the student's project proposal at the time of enrollment in PSYC 496 and PSYC 499 and, if they approve it, accept the student into the Honors Program.
3. Completion of, or enrollment in, at least five psychology courses, including PSYC 251 Psychological Statistics and PSYC 252 Research Methods. Final admission requires successful completion of those Psychology courses enrolled in at the time of application for admission to the Honors Program.

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, government, and the private sector. 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) 42 credits

MAJOR REQUIREMENTS

42 credits

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

Safety Foundation (9 credits)
TDS 284 Industrial Safety
TDS 381 Legal Aspects of Safety
TDS 480 Safety and Health Standards

Safety Electives (18 credits)
TDS 101 Manufacturing Processes
TDS 281 Introduction to Fire Science
TDS 290 Special Topics
TDS 382 Ergonomics
TDS 387 Accident Investigation
TDS 481 Hazardous Materials
TDS 482 Industrial Hygiene
TDS 487 System Safety
TDS 490 Advanced Special Topics
TDS 495 Seminar
TDS Elective
Select two of the following (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) 42 credits (6 courses required for the major may be taken as general education)

Two courses in History may apply toward the Arts and Humanities component (B) and four courses in Economics, Geography, Political Science, Psychology and Sociology may apply toward the Social Sciences component (C) of the General Education requirements.

Arts and Humanities (these must be completed for major)
HIST 161-162 Topics in U.S. History I, II
Social Sciences (these must be completed for major)
ECON 201 Macroeconomics
PSYC 101 General Psychology
POSC 201 Introduction to Political Science or
  POSC 205 Understanding Political Science through Literature and Film
SOC 201 Introductory Sociology

MAJOR REQUIREMENTS

36 credits in addition to required General Education courses

Core (12 credits)
HIST 111 World Civilization I
HIST 112 World Civilization II
SOC 210 or 211 Anthropology
GEOG 100 Introduction to Geography or
  GEOG 101 Introduction to World Geography
**PRIMARY SPECIALIZATION**
15 additional credits (at least 12 of them at the 300-400 level) in one of the following disciplines: Geography, Economics, Political Science, Sociology, Psychology, or History.

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

**ELECTIVES**
(minimum) 21 credits
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

*Courses designated with an asterisk require 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**

This major consists of a minimum of 30 credit hours of Sociology courses. Cultural Anthropology (SOC 210) should be taken soon after SOC 201. It is urged, but not required, that students take at least one seminar (SOC 495).

Students considering graduate work in Sociology should develop a reading knowledge of French or German, preferably both. Such knowledge is desirable, but not essential, for the student considering graduate study in social work.

This major also prepares students to be eligible for social studies teacher certification at the secondary level.

**GENERAL EDUCATION REQUIREMENTS**
(minimum) 42 credits

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

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 and
- HIST 112 Modern World Civilization
- ECON 201 Macroeconomics
- GEOG 101 Intro to World Geography or GEOG 105 Themes in world Geography
- POSC 201 Intro to Political Science or POSC 211 U.S. Politics
- PSYC 101 General Psychology

**MAJOR REQUIREMENTS**
32 credits

- SOC 201 Introductory Sociology
- SOC 210 Cultural Anthropology
- SOC 301 Sociological Research Methods
- SOC 303 Sociological Quantitative Analysis
- SOC 401 Sociological Theory or
  - SOC 313 Anthropological Thought
- Sociology/Anthropology Electives (15 credits)

**ELECTIVES**
(minimum) 48 credits

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

*Courses designated with an asterisk require 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**

*(minimum) 4 credits*

One semester of a modern language at the intermediate level, or higher.

**GENERAL EDUCATION REQUIREMENTS**

*(minimum) 42 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);
- 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:

- ENG 272 Latin American Literature
- ENG 271 Caribbean Literature
- GEOG 345 Geography of Latin America
- HIST 374 Latin America Since 1810
- ML 290 Selected Topics (when topic concerns Latin America, Caribbean or other Spanish-speaking cultures)
- MU 112 Latin American Music

**ELECTIVES**

*(minimum) 31 credits*

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

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

DEGREE REQUIREMENTS
120 credits

Teacher Education/ Certification Programs

The Keene State College undergraduate Teacher Education program has recently undergone dramatic changes, which make it contemporary and exciting for faculty and students. Teams of faculty have collaborated to integrate human development, special education, technology and practice into required education courses. Several field experiences have been designed to support the prospective teacher's understanding of students as they engage in the learning process and participate in different instructional settings. Prospective teachers are also encouraged to develop professional portfolios which document their experiences, trace their professional development, and mark their uniqueness as they enter the teaching profession.

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. Students preparing for the teaching profession may choose from one of the following: Option I includes Early Childhood, Elementary Education, Elementary/Special Education, Middle School Mathematics, and Secondary/Special Education (see description under Education);

Option II includes several areas (see listing under Secondary options and again under the designated majors) in Secondary Education; Option III includes K–12 Physical Education and K–12 Music Education (see description of programs).

A. Undergraduate Teacher Preparation

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 Education and the other major 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. Students pursuing Option I will complete two majors as they work to receive a Bachelor of Science in Education: Education (see the Education section of the catalog for further details) and a second major chosen from the Second Major listing. Students selecting Option II will complete their academic major and courses specified under that major which lead to teacher certification. Those students following Option III will major in either Physical or Music Education and enroll in required education courses. 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.

1. POLICIES AND PROCEDURES

The following are thematic to all of the 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 select a faculty advisor by their second year, 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 & Graduate Studies Office in Rhodes Hall. Students are to meet the following requirements:
Completion of the first three ESEC (ESEC 100, ESEC 150, ESEC 250) courses with a grade of C or better

Two reference checklists

Scores (minimum of 174 in Reading, 172 in Writing, and 172 in Mathematics) from the Pre-Professional Skills Test (PRAXIS I)

Completion of 36 credits (12 of which must be from KSC), current transcripts (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 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 letters of intent to student teach following completion of courses leading up to and including 300 level courses in the ESEC (ESEC 281/282, ESEC 320, ESEC 380 series appropriate to certification option) program. The following criteria will be used:

• Completion of a minimum of 90 credits
• Completion of the ESEC 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 Major requirements with GPA of 2.5 (minimum of 12 credits in second major must be completed by those pursuing certification in Early Childhood, Elementary, and Elementary Special Education prior to student teaching)
• 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 Certification Officer in the Teacher Education & 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.

TEACHER CERTIFICATION OPTIONS (for program details consult the designated section of the catalog):

Option I (see Education)
• Early 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 (see major area of study)
• Secondary Education Teacher Certification in the following:
  Biology
  Chemistry
  Chemistry–Physics
  Earth Sciences: Geology
  Social Studies (requires additional coursework to one of the following majors)
    Geography
    History
    Social Science
    Sociology
  English
  French
  Mathematics
  Spanish
  Technology Education

Option III (see Music Education or Physical Education)
• K–12 Certification in:
  Music
  Physical Education
2. PROGRAM REQUIREMENTS

a. General Education
All teacher education students must include a Geography course in the Social Sciences component (C) as well as a U.S. History course in the Arts and Humanities component (B) of the General Education requirements.

All teacher education certification programs and options have additional unique General Education requirements. See the specific programs for these requirements.

b. Teacher Education

Orientation
- All teacher education programs
  ESEC 100 Introduction to Teaching

Learners
- All teacher education programs
  ESEC 150 Development, Exceptionality, and Learning I*
  ESEC 250 Development, Exceptionality, and Learning II

Fundamentals
- Early Childhood; Elementary; Elementary-Special Education programs
  ESEC 281 Emerging/Evolving Literacy*
- Middle and Secondary programs (except English and Music)
  ESEC 282 Literacy in the Content Areas*

Settings
- All teacher education programs
  ESEC 320 Educational Environments and Practices

Methodology
- Early Childhood program
  ESEC 381 Methods: Infant/Toddler/Preschool
- Early Childhood; Elementary; Elementary Special Education programs
  ESEC 382 Methods: Primary
- Elementary; Elementary-Special Education programs
  ESEC 383 Methods: Intermediate
- Middle/Junior High School program
  ESEC 384 Methods: Middle School
- Secondary; Secondary-Special Education Programs (except Technology Education)
  ESEC 385 Methods: Secondary
- All teacher education programs (except K-12 and Technology Education)
  ESEC 386 Methods: Field Experience

Pedagogy
- All teacher education programs (except secondary programs in Arts and Humanities, Social Sciences, and Sciences/Mathematics)
  ESEC 387 Creating Social Contexts for Learning

Systems
- All teacher education programs
  ESEC 450 Seminar: Educational Principles

Practice
- All teacher education programs (except Elementary-Special Education and Secondary-Special Education)
  ESEC 460 Student Teaching (12 credits)
- Secondary-Special Education program
  SPED 460 Student Teaching (12 credits)
- Elementary-Special Education program
  ESEC 465 Student Teaching (6 credits)
  SPED 465 Student Teaching (6 credits)

*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

B. Post-Baccalaureate Teacher Certification Program

This program is designed to provide an opportunity for a person with a bachelor’s degree to return to college in order to become eligible for teacher certification.

The Post-Baccalaureate Teacher Certification Program (PBTCP) offers a full sequence of professional education courses leading to certification in Early Childhood Development (Birth-Age 8), Elementary, Middle-Junior High Mathematics, Secondary, Music (K–12), Physical Education (K–12), and Special Education. It provides a systematic experience within a manageable time frame for all students.

1. Application Policies and Procedures
All application materials must be submitted for review by the Teacher Education and Graduate Studies Office.

a. An application form for admission to Teacher Education, including a handwritten statement addressing the reasons for wishing to enter the teaching profession.

b. An official undergraduate transcript, indicating the earned bachelor’s degree. Evaluation of transcript includes:
   (1) Review of grades,
   (2) Assessment of courses already taken or to be substituted,
   (3) General Education competencies,
   (4) Teacher Education competencies,
   (5) Discipline competencies.

c. Two letters of recommendation

d. Interview

e. Admission: Admission to the program is restricted to a maximum of 30 students in Elementary and Special Education and 25 students in K-12 and Secondary Education each year.

2. Advising Practices
There are six phases to the advising program for students.

a. Admission screening
b. Program development
c. Faculty advisor from second major
d. Pre-Professional Skills Test

3. Enrollment

Once admitted, students enroll in the undergraduate sequence of courses in teacher education. Selections are made to meet Early Childhood Development (Birth-Age 8), Elementary, Elementary/Special, Middle-Junior High, K-12 (Music and Physical Education), Special Education, or Secondary Education requirements.

Technology Studies

Bachelor of Science

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

GENERAL EDUCATION REQUIREMENTS

(minimum) 42 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 either 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 giving students increasing challenges in design. In the advanced courses, students have the opportunity to design solutions to real problems and to create projects which are actually constructed.

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 Application
- 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 utilized to reinforce theoretical concepts. The program’s flexible design allows students to custom tailor a program to meet their career needs in CAD-CAM, Product Design, or Electro-Mechanical technologies. Graduates typically assume positions in planning, supply, production, quality control, product design/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
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 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 are: 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 and Product Design and Development Options are encouraged to pursue minors in Applied Computer Science, Management, Art, or Occupational Safety to supplement their career interests.

TECHNOLOGY, DESIGN AND SAFETY (TDS) CORE
(9 credits)
TDS 100 Exploring Technology
TDS 140 Introduction to Visual Communication
TDS 181 Safety Awareness

TECHNOLOGY EDUCATION FOUNDATION
(12 credits)
TDS 101 Manufacturing Processes
TDS 110 Electricity and Electronic Fundamentals
TDS 160 Introduction to Power and Energy
TDS 175 Construction Materials and Processes

TECHNOLOGY EDUCATION ELECTIVES
(15 credits)
In consultation with their academic advisor, students must select at least one course from each of the cluster areas of Technology Education to meet teacher certification requirements.

Communication (Select from: 121, 228, 247)
Construction (Select from: 231, 375)
Manufacturing (Select from: 152, 153, 252, 253)
Power and Transportation (Select from: 217, 265, 365)

TECHNOLOGY EDUCATION CAPSTONE COURSES
(6 credits)
TDS 400 Manufacturing Enterprise
VE 403 Introduction to Special Needs in Vocational Education

TEACHER EDUCATION (37 credits)
Note: Minimum Grade Point Average Requirements
• Teacher Education = 2.50. Minimum grade of C in each course.
• Technology Education Major = 2.50. Minimum grade of C in each course.
• Cumulative GPA = 2.50

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 Learning

Systems
**ESEC 450 Seminar - Educational Principles
Taken concurrently with ESEC 460

Practice
**ESEC 460 Student Teaching
*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

**Admission to Teacher Education required for these courses. Refer to Teacher Education Programs Section for guidelines regarding admission to Teacher Education and eligibility for Student Teaching.
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 Theatre and Dance Department at Keene State College is dedicated to providing a comprehensive course of study, which balances theory and practice within a sound liberal arts education. The collaborative nature of these disciplines offers our students 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 with applied coursework, 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 is focused 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 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
(minimum) 4 credits

One semester of a modern language at the intermediate level, or higher.

GENERAL EDUCATION REQUIREMENTS
(minimum) 42 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 Fundamentals of 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 (whichever not taken in core)
TAD 131 Western Theatre: Hist/Lit I
TAD 132 Western Theatre: Hist/Lit II
TAD 202 Fundamentals of 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 Intermediate Acting I
TAD 302 Intermediate Acting II 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
  TAD 411 Modern Dance V
  TAD 412 Modern Dance VI

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 261 Stage Drafting
  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 Fundamentals of 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 335 American Musical Theatre
TAD 361 Scenic Design
TAD 362 Lighting Design
TAD 363 Costume Design
TAD 490 Special Topics
TAD 498 Independent Study

ELECTIVES
(minimum) 28 credits

DEGREE REQUIREMENTS
120 credits

Vocational Education

Bachelor of Science

This major prepares students for certification as vocational teachers in secondary schools. Vocational teachers assist students in developing the knowledge and skills to become employable and successful in an occupation.

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

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.

American Studies Minor

21 credits

An interdisciplinary exploration of American culture. This minor offers students the opportunity to gain a greater understanding of the American multicultural identity, its past and present cultural values, conflicts and experiences.

AMST 210 Introduction to American Studies
Select one of the following:
- AMST 250 Interpreting American Culture
- 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 347 Modern American Indian Literature
- 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)
- ENG 420 Single Figure (when appropriate)
- ENG 490 Advanced Studies (when appropriate)
- ENG 495 Seminar (appropriate topic)

Area Studies (12 credits)

Student selects six credits from each of two of the following areas (refer to list of courses in American Studies Major):
- American Arts
- American History
- American Literature
- American Social Science

Applied Computer Science Minor

24 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
CS 160 Microcomputer Applications
CS 185 Computer Programming II
CS 205 Elementary Visual Basic
or CS 220 COBOL I
or CS 265 Assembly Language
CS 280 Data Structures
CS Elective (300 level)
MATH 120 Intermediate 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 & Lab or
   CHEM 221/225-222/226 Organic Chemistry I, 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 & Professional Communication
   COMM 376 Theory of Communication and Rhetoric
   COMM 475 Persuasion
   COMM 476 Group Interaction
   COMM 477 Ethics in Communication
   COMM 490 Advanced Special Topics
   COMM 495 Seminar

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/Technical Theatre Lab I (4 credits)
   TAD 162 Design for Performing Arts (3 credits)
   TAD 235 Modern Dance History
   TAD 297 Production Credit (1 credit)
   TAD 298 Performance Credit (1 credit)

Driver and Traffic Safety Minor
22 credits
This minor is available to all students. All students must demonstrate competence in first aid. The four courses marked with asterisks (*) are required for students preparing for New Hampshire endorsement as a driver education teacher.
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TDS 181 Safety Awareness and Accident Prevention
*TDS 283 Introduction to Traffic Safety
*HLSC 380 Alcohol: Model of Chemical Dependency
TDS 381 Legal Aspects of Safety
*TDS 385 Methods of Teaching Driver Education
*TDS 488 Contemporary Issues and Methods in Traffic Safety Education
TDS elective

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Economics Minor

21 credits

All minors will complete a three-course sequence which 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 which 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.

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English Minor

18 credits

This minor consists of six courses in English. Students must complete ENG 209 Literary Analysis, at least three courses at the 300-level, at least one course at the 400-level, and one additional course at the 200-level or above. At least five courses must be in literature.

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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

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Film Studies Minor

22 credits

FILM 250 Film Production I
FILM 259 Film Studies Credit (1 credit)
FILM 270 Introduction to Film Analysis
FILM 271 Introduction to Film History
FILM 352 Film Genres and Directors (6 credits)
FILM 355 Film Theory
FILM 495 Seminar

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French Minor

20 credits

The French minor serves the needs of students planning 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 U.S.
   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 Geographic Information Systems
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

Geology Minor

20-22 credits
The Geology minor consists of six courses in Geology:
GEOL 201 Introductory Physical Geology or
GEOL 100/101 Perspectives of the Earth and Lab
GEOL 202 Historical Geology
Four additional courses (12-14 credits) at 300-level or above selected under advisement of Geology faculty and major advisor.

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: The Holocaust
GER 201-202 Intermediate German I & II
GER 315 Conversation and Composition

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

21 credits
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. The following curriculum will help 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 (6 credits)
HIST 142: Western Civilization II: 1500 to Present
HIST 252 The Holocaust

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

Breadth Courses (6 credits)
Select two of the following:
ENG 252 Literature of the Holocaust
GER 290 20th-Century Culture & Society (Specific title required)
ENG 260 Readings in World Literature: Bible as Literature (Specific title required)
HIST 291 World of the Old Testament
HIST 253 The Second World War
PSYC 221 Social Psychology
PHIL 220 Ethics
PHIL 231 Comparative Religion I
WS 290 Women & the Holocaust (Specific title required)

Depth Courses (9 credits)
Select three of the following:
FILM 352 Film Genres: The Holocaust (Specific title required)
HIST 351 19th-Century Germany
HIST 353 Nazi Germany & the Holocaust
PHIL 308 Contemporary Philosophy
PHIL 313 Philosophy & the Holocaust
PHIL 360 Philosophy of Law
SOC 326 Holocaust & Genocide
PSYC 495 Seminar: Psychology of the Holocaust (Specific seminar required)
International Studies Minor

24 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 credits)
POSC 271 International Politics
Select two of the following:
- ECON 415 International and Development Economics
- MGT 360 International Management
- POSC 294 Cooperative Education (international/comparative focus)
- POSC 381 U.S. Foreign Policy
- POSC 451 Politics of Developing Areas
- POSC 461 Comparative Politics
- SOC 210 Cultural Anthropology

Area Studies (9 credits)
GEOG 303 Political Geography
Select two of the following:
- 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)
- SOC 316 Cultures of Southeast Asia

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
- HIST 374 Latin America Since 1810

Journalism Minor – Broadcast Media

21-23 credits

Serves the needs of students seeking an introduction to journalism in the broadcast media. Combines 19 credits in writing production and broadcast journalism theory with additional electives in writing and the social sciences.

Journalism Minor – Print Media

19 credits

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

Management Minor

24 credits

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

ECON 201 Macroeconomics
ECON 202 Microeconomics
MGT 101 Introduction to Management
MGT 202 Quantitative Decision Making
MGT 213 Introduction to Accounting I

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

23-24 credits

CS 140 Computer Programming
*MATH 141 Introductory Statistics
MATH 151-152 Calculus I, II
MATH 231 Linear Algebra
MATH 251 Multivariate Calculus or MATH 260 Numerical Methods
MATH elective (220 or above)

*This requirement can be fulfilled by completing PSYC 251.

Mathematics Education Minor

22-25 credits

Students starting with MATH 151 may complete a 22 credit minor and need not take MATH 130.

CS 140 Computer Programming I
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 Sight Singing I (1 credit)
MU 162 Sight Singing 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.

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 304 American Philosophy
PHIL 306 Existentialism
PHIL 308 Contemporary Philosophy
PHIL 313 Philosophy and the Holocaust
PHIL 357 History and Philosophy of Science: Origins to 1700
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

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
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 must be 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.

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.

Safety Studies Minor

18 credits

TDS 181 Safety Awareness
Select a minimum of four courses (12 credits) from the following:
TDS 281 Introduction to Fire Science
TDS 284 Industrial Safety
TDS 381 Legal Aspects of Safety
TDS 382 Ergonomics

Sociology Minor

18 credits

SOC 201 Introductory Sociology
SOC 301 Research Methods in the Behavioral Sciences
SOC 401 Sociological Theory
Three additional Sociology/Anthropology electives

Spanish Minor

20 credits

The Spanish minor allows students to acquire an active command of Spanish while majoring in another subject. Natural combinations are Spanish 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.

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
MATH 242 Applied Statistics
MATH 251 Multivariate Calculus
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)
Courses must be chosen from Technology, Design and Safety. A minimum of one course must be a 300 level or higher.

**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

**Writing Minor**

18 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 four courses (including at least two courses at 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 490 Advanced Studies (portfolio preparation)

**Women’s Studies Minor**

21 credits

This minor provides students with an interdisciplinary program that explores, from a feminist and global perspective, the contributions, ideas and experience of women in all areas of society. The program seeks to actively engage both faculty and students in the examination of and discourse about 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 division: Arts and Humanities, Professional Studies, and Sciences). Special topics may also be available.
Associate Degree Programs

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) 30 credits

A. English Language Competence - 3 credits
ENG 101 Essay Writing

B. Arts and Humanities - 9 credits
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

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

D. Sciences/Mathematics - 9 credits
One course in Biology
One course in physical science (Astronomy, Chemistry, Geology, Meteorology, or Physics)
One course from the 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 Arts and Humanities. A minimum of 12 credits must be taken in at least one of the two disciplines.

DEGREE REQUIREMENTS
60 credits
General Studies
Associate in Science

GENERAL EDUCATION REQUIREMENTS
(minimum) 30 credits

A. English Language Competence - 3 credits
ENG 101 Essay Writing

B. Arts and Humanities - 9 credits
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

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

D. Sciences/Mathematics - 9 credits
One course in Biology
One course in physical science (Astronomy, Chemistry, Geology, Meteorology, or Physics) One course from the 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
60 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 B.S. and minor programs in Applied Computer Science.

GENERAL EDUCATION REQUIREMENTS
(minimum) 24 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 - 3 credits
ENG 101 Essay Writing

B. Arts and Humanities - 9 credits
A minimum of three courses from at least two of the Arts and Humanities disciplines: American Studies, Art, Communication, English, Film Studies, History, Modern Languages, Music, Philosophy, or Theatre and Dance.

C. Social Sciences - 6 credits
A minimum of two courses from two of the Social Science disciplines: Economics, Geography, Political Science, Psychology, or Sociology.

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

CONCENTRATION REQUIREMENTS
30 credits

CS 140 Computer Programming I
CS 160 PC Hardware Fundamentals
CS 185 Computer Programming II
CS 205 Elementary Visual Basic
or CS 220 COBOL
or CS 265 Assembly Language
CS 280 Data Structures
CS Elective (300 level)
MATH 120 Intermediate Algebra and Trigonometry (students with a strong mathematics background are advised to take MATH 130 or MATH 151 instead)
MATH 141 Introduction to Statistics*
MGT 101 Introduction to Management
MGT 213 Introduction to Accounting I
*This requirement can be fulfilled by completing PSYC 251.

ELECTIVES
Select courses to reach a total of 60 credits for the degree.

DEGREE REQUIREMENTS
60 credits

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.
ASSOCIATE DEGREE PROGRAMS

GENERAL EDUCATION REQUIREMENTS
(minimum) 24 credits
A. English Language Competence - 3 credits
ENG 101 Essay Writing
B. Arts and Humanities - 9 credits
A minimum of three courses from at least two of the Arts and Humanities disciplines: American Studies, Art, Communication, English, Film Studies, History, Modern Languages, Music, Philosophy, or Theatre and Dance.
C. Social Sciences - 6 credits
A minimum of two courses from two of the Social Science disciplines: Economics, Geography, Political Science, Psychology, or Sociology.
D. Sciences/Mathematics - 6 credits
A minimum of two courses from two of the Science/Mathematics disciplines: Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Geology, Mathematics, Meteorology, or Physics.

CONCENTRATION REQUIREMENTS
18 credits
HLSC 380 Alcohol: Model of Chemical Dependency
HLSC 490 Advanced Special Topics
(Topics must be selected from Substance Abuse/Addictions and Chemical Dependency offerings.)
HLSC Elective in Chemical Dependency
Select a total of 9 credits from the following:
*A minimum of 3 of these credits must be from HLSC electives in Chemical Dependency
HLSC 101 Health and Wellness Trends and Issues
HLSC 215 Nutrition Science and Application
*HLSC Elective in Chemical Dependency
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

Technology Studies
Associate in Science
The two-year Technology 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 possible concentrations 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 upon completion, the program is fully transferable into the four-year Technology Studies program at Keene State College.

GENERAL EDUCATION REQUIREMENTS
(minimum) 24 credits
MATH 120 Applied Algebra and Trigonometry is required for the Sciences/Mathematics component (D) of the General Education Requirements.
A. English Language Competence - 3 credits
ENG 101 Essay Writing
B. Arts and Humanities - 9 credits
A minimum of three courses from at least two of the Arts and Humanities disciplines: American Studies, Art, Communication, English, Film Studies, History, Modern Languages, Music, Philosophy, or Theatre and Dance.
C. Social Sciences - 6 credits
A minimum of two courses from two of the Social Science disciplines: Economics, Geography, Political Science, Psychology, or Sociology.
D. Sciences/Mathematics - 6 credits
MATH 120 Applied Algebra and Trigonometry
One course from the following disciplines: 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 Technology, Design and Safety 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
Educating Students in Context: Professional Roles in Research and Practice

Purpose of the Graduate Program
The vision for Professional Educator Development at Keene State is “Excellence in initial and advanced preparation of outstanding educational leaders for today and tomorrow.” Complementing the vision is the mission: “To meet the need for preparation of outstanding educational leaders who create environments that foster individual exploration of human potential and the development of independent learners and responsible citizens.” Together these statements set the agenda for Keene State’s ESEC faculty (Education, Special Education, Early Childhood) and the foundation for related programs of study.

The purpose of the ESEC graduate program is to serve as a mechanism for achieving the Professional Educator Development mission by offering a sequence of course experiences within specialty areas in professional education which is relevant to today’s education professionals, is grounded in research, and is established in anticipation of future trends in education. The specialty areas are designed to address national standards and, where certification is recommended, the standards for New Hampshire professional educators.

Graduate Program Model
Themes
The three-dimensional model used in the undergraduate teacher preparation program is extended to the graduate program, with a few modifications. The Themes dimension remains unchanged, as it represents what our faculty hold as essential areas for professional development as emerging or experienced professionals. The overarching graduate program focus – Educating Students in Context: Professional Roles in Research and Practice – embraces the Themes in the Teacher Education Theme Web. Further, the focus suggests that in the graduate program we are emphasizing 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 ESEC Professional Educator Development programs are organized are Self Esteem & 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 Create & Construct Own Knowledge.

Professional Standards for Program Options
The second dimension of the model in the undergraduate program is the Ideal Teacher Candidate, an articulation of the dimensions of teaching in which graduates of the program should be proficient. At the graduate program level this dimension also changes slightly to reflect the experience and previous preparation in education and related fields of students in the graduate program. Each of the four specialty area programs is framed by standards from national organizations. These standards specify the knowledge and skill competencies experienced professionals should have, and in that way suggest desired outcomes of the graduate specialty area programs. Each specialty area uses the standards in planning courses and experiences and strives to meet as many standards as possible. Therefore, while Ideal Teacher Candidate is the appropriate title for the outcomes dimension of the undergraduate program model, Professional Standards is more appropriate for the graduate program.

Orientation and Delivery of the Program
The third dimension of the model is Delivery. While the dimension title is appropriate for both undergraduate and graduate programs, Delivery of the graduate program is very different. The undergraduate model identified three aspects of the program - General Education,
Teacher Education, and Non-Education Major. The graduate program is more focused and sequential in its Delivery. Students who are exploring graduate study and the KSC program or who have been admitted to the program complete two courses - Research Strategies in Education (ESEC 601) and Students, Families, Schools, and Society (ESEC 602). The first of these core courses (Research Strategies in Education) orients students to the Themes related to problem solving, assessment, identifying and validating best practices, writing, technology, and collaboration. The second (Students, Families, Schools, and Society) provides background content and discussions of issues in the Themes related to life-span development, social responsibility and ethics, families, self-esteem, reflection, and collaboration. Completion of these two courses is required before students proceed to program option courses. Together these core courses serve as an Introduction to Graduate Studies.

The second Delivery piece of the graduate program framework is the program option coursework. Courses in the program options infuse Themes and Professional Standards into experiences that require students to translate theory into practice and to demonstrate advanced skills and knowledge in their area of specialization.

Each program option has the following framework: a first course (Portfolio Development and Assessment) which presents the concepts related to portfolios and requires students to begin development of a Professional Portfolio, which includes a plan for professional and personal development in the graduate program. A second course (or two courses) orients students to the program option content, history, issues, and/or focus.

The Portfolio Development and Assessment and program option background courses are followed by an Assessment/Evaluation course specific to the program option. Understanding of and proficiency in Assessment and Evaluation of students is an essential element of professional educator practice and is identified in each of the national standards referenced by the program option.

Each program option includes a set of courses, which requires students to translate theories related to education into sound educational practices. Emphasis is on interpreting both theory and research revolving around topics identified by the Teacher Education Themes and Professional Standards dimensions.

A final program option requirement is a performance activity: an internship. The internship requires students to demonstrate competence in skills and knowledge learned in the program option coursework and referenced in the state and national standards. The internship is the culminating activity within the program option and is supervised and assessed by faculty.

Complementing the Introduction to Graduate Studies and the Program Option Coursework are electives. Students may enroll in courses which meet their professional goals but which are outside the course requirements for their program option. Elective courses vary in credit from 1 to 3, focusing on current issues, trends, and strategies in the education literature which are related to the Teacher Education Themes and Professional Standards.

The graduate program framework has, as a final component, a capstone experience. The Capstone Seminar brings together in a cooperative setting students in the program option. The Capstone Seminar experience uses the collaborative case study development method and requires student presentations. Students identify a problem area or student on which to focus studies. Others in the class serve as consultants in the development of viable interventions and the identification of methods for assessing the efficacy of the interventions.

Program Administration

Admission to the Graduate Program

Admission to the graduate program requires completion of an application process which includes submission of transcripts for all undergraduate and graduate coursework, three letters of recommendation, an admissions essay which outlines the applicant’s goals for graduate work, and an application fee. Applicants currently holding a New Hampshire teaching certificate must include a copy with their application. An official report of Pre-Professional Skills Test results is required for applicants seeking initial certification in New Hampshire or who have a teaching certificate which has lapsed.

New Hampshire requires that applicants for an initial certification or for renewal of a lapsed certificate obtain criterion scores on the PRAXIS I: Pre-Professional Skills Test in order to be qualified for certification. Successful candidates for admission who are seeking an initial certification or who are renewing a lapsed certificate as part of their graduate program must meet or exceed
test score criteria established by the New Hampshire Department of Education.

In addition, applicants must have earned a baccalaureate degree with a minimum 2.5 grade point average for all undergraduate course work or score at the 50th percentile or above on the Graduate Record Exam or the Miller Analogies Test.

Each program option has additional requirements.

1. School Counselor Option
   A personal interview with a School Counselor faculty member

2. Educational Leadership Option
   A minimum of two years’ full-time teaching experience
   A personal interview with an Educational Leadership faculty member

3. Curriculum & Instruction Option
   a. Professional Development Track
      A teaching certificate
      A minimum of one year’s full-time teaching experience or equivalent
   b. Certification Track
      Completion of a program planning sheet for the graduate program

Students planning to complete the course work and apply for certification in either School Counselor and Educational Leadership options must be matriculated in order to register for courses in these program options.

Students matriculate only in the fall semester. The application process must be completed by June 1 for students to be considered for fall matriculation. Program applicants may enroll for core courses (Research Strategies in Education (ESEC 601) and Students, Families, Schools, and Society (ESEC 602)) at any time prior to matriculation. In addition, electives may be taken prior to matriculation. However, typically not more than nine credits may be transferred into any program option, taken at Keene State or another institution.

Administration of the Program
The Graduate Program is administered through the Teacher Education & 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 Registrar maintains academic records. The Office of Continuing Education monitors students who enroll in graduate courses but are not matriculated in order to assist non-matriculated 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.

ESEC faculty offer courses in a planned three-year cycle that allows realistic student planning for completion of degree requirements in from 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 week-long 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 appropriate for their professional portfolio plans but which are not studies in depth in specialty area programs. 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 either at the 500 or 600 level.

Degree Requirements
1. Completion of the minimum course requirements 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” count toward the degree. The Forgiveness Policy does not apply to courses taken for Graduate credit.

2. Fulfillment of the residence requirement for graduate students (normally completed by taking at least 80 percent of credits through Keene State College courses).

3. Submission of an Intent to Graduate Form to the TEGS Office during the first two weeks of the semester prior to the semester of graduation.

4. Payment of the graduation fee.

Transfer of Credit
Keene State College normally accepts up to nine transfer credits provided these credits apply to a candidate’s graduate program and are approved by the student’s advisor and the Director of the TEGS Office. Only credits are transferred, not grades. Transfer courses do not count toward the required 3.0 average for program completion. The Director of the TEGS Office determines the relevance of the transfer credits. Transcripts must indicate that the student was enrolled as a graduate student in a graduate-level course in an appropriately accredited institution.

Grades below a B from any institution are not acceptable for transfer into graduate programs. Normally, courses taken more than seven years before the date of admission cannot be transferred into graduate programs.

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 credits or less. Students may be granted one additional year upon petition to the Director of Graduate Programs and approval by the Graduate Dean.

Graduate Course Policy
A graduate student may elect to apply up to, but no more than, six (6) 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 graduate student who registers for nine or more credits in a semester is considered a full-time student. The normal maximum academic load in a summer session is six credits. Exceptions to this policy must be approved by the Director of the TEGS Office prior to registration for credit overloads.

Academic Dismissal
Graduate students failing 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 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. The Office of Student Financial Management should be contacted for further information.

A limited number of graduate assistantships are available to matriculated graduate students. Support includes a $3,000 annual stipend, plus waiver of tuition for six approved courses (normally 18 credit hours) for the academic year. Twenty hours of work per week are expected of recipients. Applications are available from the TEGS Office.

Leave of Absence
Written requests for a leave of absence may be addressed to the Director of the TEGS Office. If the request is granted, the student assumes responsibility for fulfilling all official withdrawal procedures, including a specification of the intended date of return. When a leave has been officially granted by the college, no readmission procedure will be required.
Graduate Programs

Master of Education

Special Education Option
The Special Education Option in the M.Ed. program is designed to promote the enhancement and development of teaching skills and strategies appropriate for special-needs learners.

This program is currently under review. Consequently, there is an institutional hold on all admissions. Contact the Teacher Education and Graduate Studies Office for alternative ways to obtain advanced certification in Emotionally Handicapped/Learning Disabilities.

School Counselor Option
The School Counselor Option in the M.Ed. program is designed to promote the enhancement and development of counseling skills and strategies appropriate for school counselors. 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).

A developmental and an ecological perspective provide the theoretical frameworks for the program. The developmental perspective focuses on the needs, tasks, and challenges of children and adolescents at each stage in their growth. The ecological 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 throughout the specialty area coursework by the commitment to preparing counselors who can work sensitively and effectively with diverse populations, including the full range of cultural, ethnic, gender, 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 be highly skilled 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 parents 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 also 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 the Professional Standards dimension of the Graduate Program Conceptual Framework. Two School Counselor Internships (elementary and secondary) include a 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. Flexibility in developing new skills is accomplished through student selection of electives.

Admissions Criteria
Successful candidates for admission to the School Counselor Option must meet the criteria for admission to the Graduate Program and have a personal interview with a Keene State College School Counselor faculty or admissions staff member.

School Counselor Option Requirements
INTRODUCTION TO GRADUATE STUDIES (5 credits)
ESEC 601 Research Strategies in Education
ESEC 602 Students, Families, Schools, and Society (2 credits)

SCHOOL COUNSELOR OPTION (25 credits)
ESECSC 610 Portfolio Development and Assessment (1 credit)
ESECSC 621 Foundations of School Counseling
ESECSC 631 Assessment and Evaluation in Schools
ESECSC 641 Career Development
ESECSC 651 Methods and Skills of Counseling
ESECSC 652 Group Counseling
ESECSC 661 School Counselor: Roles, Responsibilities, and Interventions
ESECSC 696 Internship: Elementary
ESECSC 697 Internship: Secondary

ELECTIVES (6 credits)
Graduate-level courses

CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

TOTAL 39 CREDITS

Educational Leadership Option
School principals are leaders who function in multiple roles to meet the diverse needs of individuals and groups in an increasingly complex society and in a rapidly evolving world. In order to lead effectively, school principals must be prepared with the knowledge, skills, and ethical understanding necessary to create an environment which 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 their 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, 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, other professionals, paraprofessionals, staff members, 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 when working with all constituencies in large and small groups or individual conferences.

A thorough understanding of what makes organizations effective, motivation, human development, learning and learning styles, mediation and conflict resolution, oral and written communication and delegation are integral components to the program.

School principals must be models of and knowledgeable about ethical standards and the law. Principals must be capable of applying those concepts in the complexities of a school setting. Legal and ethical considerations include understanding the parameters surrounding confidentiality, personal and group safety, the importance of knowing one’s own biases and limits, consultation with colleagues and when to refer an issue to another individual, central office or outside agency.

Admissions Criteria
Successful candidates for admission to the Educational Leadership Option must meet the criteria for admission to the Graduate Program and have:

- a minimum of two years’ full-time teaching experience. (For Principalship Certification, three years of full-time teaching experience is required.)
- a personal interview with an Educational Leadership faculty or admissions staff member
Educational Leadership Option Requirements

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 651 School and Community Relations
ESECEL 652 Budget and Facility Management
ESECEL 697 Internship

ELECTIVES (6 credits)
Graduate-level courses

CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

TOTAL 36 CREDITS

Curriculum and Instruction Option

The Curriculum & Instruction (C & I) Option in the M.Ed. program is designed to promote 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 (Professional Standards dimension of the Conceptual Framework).

To align with both the Professional Educator Development Mission and these standards the C & I Option has two tracks. The first is designed for education professionals who are currently working in regular classrooms. The course content in this C & I Professional Development Track is designed to extend current teaching skills and knowledge with emphasis in the areas of 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. Since assessment of students, classrooms, and systems is essential for providing developmentally appropriate educational experiences for students, a course that focuses on assessment strategies is included and is cross-listed with the assessment course required of students in the School Counselor program. A series of courses follows, each dealing in depth with an aspect of the teacher’s role in the regular classroom. These are courses titled Applied Learning Theory (ESECCI 641), Curriculum Development (ESECCI 651), and Collaboration and Service Delivery Options (ESECCI 661, cross-listed with ESECSP 661). An internship concludes the C & I Professional Development track.

The second C & I track (C & I Certification Track) is designed for students with life experiences which have led them to want to obtain an initial teaching certificate in Early Childhood Education, Elementary Education, Middle School Mathematics, Physical Education, Music Education, and a secondary certification area currently offered at the college. This track requires an initial review of previous coursework. At this review, deficiencies in undergraduate liberal arts areas required to meet state standards for teacher certification are identified and courses that need to be taken are specified.

The Certification Track includes a set of courses and experiences that address both the Teacher Education Themes and the New Hampshire State Standards for Teacher Certification. In addition to the courses in Portfolio Development and Assessment (ESECCI 610), Design and Reform of American Education (ESECCI 621), Assessment in the Classroom Context (ESECCI 631), and Curriculum Development (ESECCI 651), students enrolled in the C & I Certification track are required to take courses in Life-Span Development and Classroom Instructional Management. Undergraduate coursework in Literacy (for elementary or secondary learners) and methods experiences at the level appropriate for the level of certification being sought are also required. A minimum of 80 clock hours in field placements is required in conjunction with the methods course experiences. The field placement clock hours do not carry course credit. Students who successfully complete all requirements in this track receive the Master of Education degree and are recommended for initial teacher certification. Those students enrolled in this program who wish to pursue initial certification in General Special Education must take the undergraduate coursework associated with that certification.

Each of the courses in both C & I tracks has a central field-based component which requires identification of questions and challenges for which solutions need to be found. In this way the course content is individualized. Further individualization occurs in the electives selected in the Professional Development track based on the professional goals identified in the beginning of the program. Students may select from a comprehensive list of elective courses or they may choose a course from any of the other program options for which the prerequisites are met.
Admissions Criteria - Professional Development Track
Successful candidates for admission to the Curriculum & Instruction – Professional Development Track must meet the criteria for admission to the Graduate Program and have:
• teaching certificate
• minimum of 1 year’s full-time teaching experience or equivalent

C & I OPTION REQUIREMENTS - PROFESSIONAL DEVELOPMENT TRACK
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

ELECTIVES (9 credits)
Graduate-level courses

CAPSTONE EXPERIENCE (3 credits)
ESEC 699 Capstone

TOTAL 36 CREDITS

Admissions Criteria - Certification Track
Successful candidates for admission to the Curriculum & Instruction – Certification Track must meet the criteria for admission to the Graduate Program and complete a program-planning sheet for the graduate program.

C & I OPTION REQUIREMENTS - CERTIFICATION TRACK
Introduction to Graduate Studies (5 credits)
ESEC 601 Research Strategies in Education
ESEC 602 Students, Families, Schools, and Society (2 credits)

C & I OPTION – CERTIFICATION TRACK (31 credits)
ESECCI 610 Portfolio Development and Assessment (1 credit)
ESECCI 621 Design and Reform of American Education

ESECCI 630 Life-span Development
ESECCI 631 Assessment and Evaluation in Schools
ESECCI 651 Curriculum Development
ESECCI 686 Field Placement (no credit)
ESECCI 687 Classroom/Instructional Management
ESECCI 696 Student Teaching (15 credits)

TOTAL 36 CREDITS

Initial Certification Courses*
For Early Childhood Certification, ESEC 281, ESEC 381 and ESEC 382 are required
For Elementary Certification, ESEC 281, ESEC 382 and ESEC 383 are required
For Middle School Certification, ESEC 282, ESEC 384 are required
For Secondary Certification, ESEC 282 and ESEC 385 are required
For Physical Education and Music Education Certifications, see program requirements in the current college catalog.

TOTAL UNDERGRADUATE 6-9 CREDITS
TOTAL FOR CERTIFICATION 42-45 CREDITS

* General Special Education Certification may be earned together with Elementary Certification by adding the post-baccalaureate special education course requirements (SPED 301, SPED 420, SPED 430) and additional field placement time for instructing students with special needs.

Post-Master’s Certification Programs
For individuals currently holding a master’s degree who wish to become certifiable as a school principal or school counselor, Post-Master’s Certification Programs are available as follows:

Educational Leadership (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 651 School and Community Relations
ESECEL 652 Budget and Facility Management
ESECEL 697 Internship
School Counselor (25 credits)

ESECSC 610 Portfolio Development and Assessment (1 credit)
ESECSC 621 Foundations of School Counseling
ESECSC 631 Assessment and Evaluation in Schools
ESECSC 641 Career Development
ESECSC 651 Methods and Skills of Counseling
ESECSC 652 Group Counseling
ESECSC 661 School Counselor: Roles, Responsibilities, and Interventions
ESECSC 696 Internship: Elementary
ESECSC 697 Internship: Secondary

Specialty area certification in both Emotional/Behavioral Disorders (EH) and Learning Disabilities (LD) is offered for those certifiable in General Special Education. (Note that completion of the following coursework leads to eligibility for certification in EH and LD in New Hampshire.)

Special Education EH and LD

This program is currently under review. Consequently, there is an institutional hold on all admissions. Contact the Teacher Education and Graduate Studies Office for alternative ways to obtain advanced certification in Emotionally Handicapped/Learning Disabilities.
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 the 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.

100/200-level courses are introductory and intermediate courses usually taken during the freshman and sophomore years.

300/400-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
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
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
Exploration of topics in American Studies. May be repeated as topics change. Spring

AMST 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.

AMST 390 CRITICAL APPROACHES
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
Exploration of advanced topics in American Studies. May be repeated as topics change. Occasionally
AMST 495 SEMINAR
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
1-3 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 6 credits. Permission of American Studies coordinator, approval and appropriate supervision by core faculty.

AMST 498 INDEPENDENT STUDY
1-6 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 6 credits.

Arts

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 man-made volumes and spaces. Projects in object, architectural, and environmental design. Studio projects will be 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 2002, 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 2003, 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 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 244 SCULPTURE I
A comprehensive exploration into low and high relief and full-round forms using clay and plaster as materials. Introduction to mold-making as a duplicating method. Emphasis on development of personal standards in technique and expression. Fall, Spring

ART 245 GRAPHIC DESIGN FUNDAMENTALS
Students are introduced to the vocabulary, principles, tools, and techniques of the design profession. Assignments focus on message communication 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 will be 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. Fall, 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 continuation of complex molding systems and an extension into a variety of materials and techniques, most not historically associated with sculptural construction. Prerequisite: ART 244. May be repeated for credit with approval of instructor. Spring

ART 345 DRAWING II
Advanced studio work in drawing 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 346 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 350. Fall, Spring

ART 349 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 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
Includes identification of problem, definition of objectives, establishment of design strategies, and production of prototypes. Critiques guide students to professional quality results. May be repeated 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 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 non-majors. 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 non-majors. 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 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 non-majors and majors. Lab (BIO 152) required for Biology majors. Fall

BIO 152 LIFE: DIVERSITY LAB
1 credit
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
1 credit
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, or CHEM 103, or CHEM 111 depending on requirements of a student's major. Spring

BIO 231 HUMAN ANATOMY AND PHYSIOLOGY I LAB
1 credit
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, skeletomuscular, 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
1 credit
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. Quantita-
BIO 252 ECYCOLOGY 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 will be covered. Prereqs: Grades of C or higher in BIO 151. Fall, Spring

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. Prereqs: 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. Prereqs: Grades of C or higher in BIO 151 and BIO 153. Spring

BIO 255 EXPERIMENTAL GENETICS
2 credits
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
2 credits
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. Prereqs: 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. Prereqs: 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. Prereqs: 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 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. Prereqs: 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. Prereqs: Grades of C or higher in BIO 151/152 and BIO 153/154. Fall

BIO 325 DENDROLOGY
4 credits
Both a field course concerned with the collection and identification of trees and shrubs in the local flora and a course concerned with basic concepts of forest ecology and alternative uses of local forest resources. 3-hour lecture, 2-hour lab, field trips. Prerequisite: Permission of instructor; grades of C or better in BIO 151/152 and BIO 153/154. Spring, alternate years

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. Fall, alternate years

BIO 335 ECONOMIC BOTANY
The origin, evolution, distribution, morphology, anatomy, and human improvement of plants which are important to humans as a source of food, drugs, or structural materials. Prerequisites: Permission of instructor; grades of C or better in BIO 151/152 and BIO 153/154. Fall

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. Spring

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. Summer, 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 376 COMPARATIVE VERTEBRATE ANATOMY
4 credits
A comparative analysis of vertebrate anatomy; includes detailed dissections of shark, cat, or rabbit. 3-hour lecture, 3-hour laboratory, independent study assignments. Prerequisite: Grades of C or better in BIO 151/152 and BIO 153/154.

BIO 401 BIOCHEMISTRY
4 credits
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 451 POPULATION ECOLOGY
Study of the interactions of organisms with their biotic and abiotic environment. Emphasizing factors and processes that influence organisms within and between populations. Prerequisites: BIO 252, MATH 141; and BIO 256 or 257. Spring, alternate years

BIO 452 COMMUNITY AND ECOSYSTEM ECOLOGY
Study of the interactions of organisms with their biotic and abiotic environment. Emphasizing structure of and function within biological communities and ecosystems. Some exploration of the biological basis of current global environmental problems. Prerequisites: BIO 252, MATH 141; and BIO 256 or 257. Fall, 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
A capstone experience that refines basic skills and concepts through an exploration of specific themes in scientific literature. Coursework will emphasize analysis, synthesis, organization and oral communication. Students will lead classroom discussions; active participation is essential. Prerequisites: Senior standing and any 400-level Biology course. 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: Taken concurrently with CHEM 103 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 thermodynamics. 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, radioactive decay, 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. Co-requisite: 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. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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 103 and CHEM 107 or CHEM 112 and CHEM 116 or permission of instructor. Taken concurrently with 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, multi-step synthesis and mechanistic experiments are enhanced by use of spectroscopic and chromatographic tools. Prerequisites: Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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 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 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. Taken concurrently with CHEM 325. Prerequisite: CHEM 222 or permission of instructor. Occasionally

CHEM 325 EXPERIMENTAL ORGANIC CHEMISTRY III
1 credit
Third semester of organic labs. Taken concurrently with 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. Taken concurrently with 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. MATH 251 desirable, but not required. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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: CHEM 116 or permission of the instructor. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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
An 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
A 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 wishing 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 122/126, or permission of instructor. Taken concurrently with 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 and CHEM 222/ CHEM 226 and BIO 153/ BIO 154 or permission of instructor. BIO 254 recommended. Taken concurrently with 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 co-requisites: CHEM 401 and BIO 153/ BIO 154 or permission of instructor. BIO 254 recommended. Taken concurrently with CHEM 401. 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, electroanalytical techniques, gas, liquid, and ion chromatography, resonance and mass spectrometries. Prerequisite: CHEM 221/ CHEM 225, CHEM 222/ CHEM 226, CHEM 251/ CHEM 255, CHEM 341/ CHEM 345 and CHEM 342/ CHEM 346 or permission of instructor. Taken concurrently with CHEM 456. Spring

CHEM 456 INSTRUMENTAL ANALYSIS LAB
2 credits
Experience with modern instrumentation, including chromatographic, electrochemical, spectroscopic, and irradiative techniques. Prerequisite: CHEM 222/ CHEM 226, CHEM 345 and CHEM 346, or permission of instructor. Taken concurrently with 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 470 INDUSTRIAL CHEMISTRY LAB
2 credits
A laboratory course covering many areas of industrial chemistry. Experimental units demonstrating practical operations, polymers, fragrance and surfactant chemistry. Stressing process simulation, product testing, materials identification and formulation. 1-hour lecture, 3-hour lab. Prerequisite: CHEM 221/225, or permission of instructor. Spring
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 course in Chemistry with a number 300 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. 1 hour conference. (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 Breath 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: 25 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
COURSES OF INSTRUCTION

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: A grade of B or higher 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. Prerequisite: COMM 171, 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 will develop methods of ethical analysis through discussion, lecture, experiential activities, observation, case studies, and research papers. Prerequisites: COMM 175 and 275, or permission of the instructor.

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

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 the topic of the seminar, 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 available 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: Enrolled 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
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. A course for people who will purchase, support or maintain PC systems. Content will reflect current hardware, software, and Internet standards. Prerequisite: CS 101 or CS 102 or CS 140. Not available to students who have taken CS 161. Fall, Spring

CS 161 MICROCOMPUTER SYSTEMS
A course in usage of microcomputer systems, including hardware, operating systems, and limited application software. Will cover purchase, support and maintenance of microcomputer systems. Content will reflect current hardware and operating system standards. Prerequisite: CS 101 or CS 102, or CS 140. Enrollment in ESEC program. Not available to students who have taken CS 160.

CS 169 INTRODUCTION TO ISERIES 400
Introduction to the operations of the iSeries 400 midrange computer system. Topics include User Interface, displays, on-line 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 400 OPERATIONS/ADT
Covers basic tools and facilities of the iSeries 400 computer and basic understanding of computer's architecture. CL syntax and programming and spool file concepts covered. Work with SEU, PDM, SDA, Query/400, DFU, DDS, QPNQRF and CPYF. Introductory DB2 database creation. Prerequisites: CS 169 and CS 140 or previous iSeries 400 experience and permission of instructor. Annually

CS 185 COMPUTER PROGRAMMING II
Extends the CS 140 concepts to include arrays, structures, pointers, functions, parameter passing, sorting, searching, and dynamic memory. Some coverage of objects may also be included. Prerequisite: A grade of C or higher 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: A grade of C or higher in CS 185.

CS 220 COBOL
Introduction to the business-oriented language COBOL utilizing the mid-sized iSeries 400 computer. Covers the reading and writing of data manipulation including search and sort routines; table creation and processing; and processing including master/transaction file updating. Prerequisites: CS 170 and CS 185. Fall

CS 221 ISERIES 400 COBOL II
Introduces the concepts of interactive COBOL programming for the mid-sized iSeries 400 computer. Students also learn table and array processing as well as sub-file screen processing. Object-based development concepts and DB2 database processing stressed, in structured and modular programs. Prerequisite: A grade of C or higher in CS 220. Spring

CS 230 ISERIES 400 RPG PROGRAMMING
Introduction to the elements of RPG programming and program documentation using RPG/400, a subset of RPG III. Covers production of reports such as detail, totals, group-indicated. Utilizes object concepts and DB-2 databases. Basic structured programming and molecular design stressed. Prerequisites: CS 170 and CS 185. Fall

CS 231 ISERIES 400 RPG IV
Class teaches the concepts and programming techniques needed to master RPG IV. Class topics include basic and advanced topics such as procedures, sub-files, and API’s to provide foundation for moving from older RPG environments to modern mid-sized on-line computer environments. Prerequisite: CS 230. Spring
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 or 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 will be emphasized. Some digital logic concepts may also be introduced. Prerequisite: A grade of C or higher 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: A grade of C or higher in CS 185. *Fall, Spring*

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, Summer*

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 a total of 9 credits. *Fall, Spring, Summer*

CS 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.

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
This course concerns 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 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 or CS 280 or CS 185 and permission of instructor, MGT 101 and MGT 213. *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 utilize 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 about designing a database, creating it, loading data and access
plus relational theory, referential integrity, joining, indexing, triggers and constraints. Prerequisites: CS170 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 OPNQQR YF creating custom commands and applying contextual help to those unique commands. Prerequisite: 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 and permission of instructor, and MGT 101 and MGT 213, MATH 120 and MATH 141. Fall, alternate years

CS 385 DESIGN AND ANALYSIS OF ALGORITHMS
Design and analysis of algorithms. Analysis will concentrate upon 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
A course in 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: A grade of C or higher 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 WWW using JAVA. Prerequisite: 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 420. Spring

CS 430 PRINCIPLES OF PROGRAMMING LANGUAGES
Theoretical foundations of modern programming languages, concentrating upon topics which 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 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 in-
COURSES OF INSTRUCTION

CS 493 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 293, 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 300-400 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 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 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 201–202. Fall

ECON 302 INTERMEDIATE MICROECONOMICS
Concentrates on market models, income distribution, and general equilibrium. Prerequisites: ECON 201-202. 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 devoted to comparing the theoretical assumptions and policy conclusions of these approaches with those of orthodox economic theories. Prerequisites: ECON 201 and 202. Fall, to be announced

ECON 329 LABOR ECONOMICS
Manpower 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 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. Prerequisites: ECON 201 and 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 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 202. Fall or Spring, to be announced

ECON 420 ECONOMETRICS
The theory of economic model building, both deterministic and stochastic, together with the essential analytical methods. Where possible, these models are used to analyze current real-world economic conditions. Prerequisites: ECON 201 and 202. 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 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 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 202 and permission of instructor. May be repeated to a total of 6 credits.

Education/ Special Education/ Early Childhood

*Courses designated 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 will be explored through the voices and stories of teachers. KSC program requirements, teacher certification, and development of professional portfolios will be introduced. 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 will be analyzed. Biographies, literature, and texts will be researched. Spring

ESEC 250 DEVELOPMENT, EXCEPTIONALITY AND LEARNING II
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 202. Fall or Spring, to be announced

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 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 METHODS: INFANT/TODDLER/PRESCHOOL
Developmentally appropriate content, materials and methods of instruction used with children birth to age five. Exploration of a variety of approaches to interaction and instruction, including adaptations for diverse learners, with emphasis on implementation in the field placement. Prerequisite: admission to Teacher Education, ESEC 320, 2.5 GPA for ESEC courses, academic major, and overall. Fall, Spring

ESEC 382 METHODS: PRIMARY
Developmentally appropriate content, materials, and methods of instruction used with children grades kindergarten through three. Exploration of a variety of approaches to interaction and instruction, including adaptations for diverse learners, with emphasis on implementation in the field placement. Prerequisite: ESEC 320, 2.5 GPA for ESEC courses, academic major, and overall. Fall, Spring

ESEC 383 METHODS: INTERMEDIATE
Developmentally appropriate content, materials, and methods of instruction used with children grades four through eight. Exploration of a variety of approaches to interaction and instruction, including adaptation for diverse learners, with emphasis on implementation in the field placement. Prerequisite: ESEC 320, 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 nine through twelve. 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. Taken concurrently with 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. Taken concurrently with 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. Taken concurrently with 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 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, Spring

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 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, completion of 30 hours of specialty area coursework. 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 or permission of instructor. 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 will be 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 (cross-listed with ESECSC 631). 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, 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 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. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631 (cross-listed with ESECSP 661). Spring

ESECCI 686 FIELD PLACEMENT
no credit
Direct work in classrooms applying content, skill, and materials 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. Taken concurrently with 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 developing a comprehensive approach to managing instruction in cognitive, social, and physical domains. Includes strategies for successful inclusion of students with special needs. Prerequisite: admission to Graduate Program. Fall

ESECCI 696 STUDENT TEACHING
15 credits
Full-time placement in educational setting(s) appropriate to certification 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 which synthesizes the entire program. Graded Pass/Fail. Prerequisite: Successful completion of all program requirements in the Curriculum & Instruction Option-Certification Track. Spring

ESECCI 697 INTERNSHIP
Supervised practice related to focus of student’s professional portfolio development. Prerequisite: admission to Graduate Program, completion of all other C & I Specialty 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 development of professional portfolio, including plan for professional development achieved through M.Ed. study. Prerequisite: admission 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 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
Processes and procedures for instructional and program development and evaluation such as the state testing program, school climate and school effectiveness. A study of school culture: how to analyze, improve, and assess it in the process of school restructuring. Prerequisite: admission to Graduate Program or permission of instructor. Summer

ESECEL 631 STAFF SELECTION, SUPERVISION AND EVALUATION
Recruiting, inducting, and mentoring school personnel. Observation methods and conferencing techniques are practiced 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
ESECSC 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 (cross-listed with ESECCI 631). 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; ESECSC 621; for non-matriculated 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. Prerequisite: admission to Graduate Program; ESECSC 621. Fall

ESECSC 661 SCHOOL COUNSELOR: ROLES, RESPONSIBILITIES, AND INTERVENTIONS
Examines the role of the school counselor in relation to the philosophy and curriculum of the school. Emphasis is on defining the professional relationships and responsibilities among counselor, teacher, administrator, student, and family in the delivery of guidance services. Prerequisite: admission to Graduate Program; ESECSC 621, ESECSC 651. Spring

ESECSC 696 INTERNSHIP: ELEMENTARY
Supervised practice in elementary/middle school counseling. Prerequisite: admission to Graduate Program, completion of all required ESECSC courses or concurrent enrollment. Fall, Spring

ESECSC 697 INTERNSHIP: SECONDARY
Supervised practice in middle/secondary school counselor. Prerequisite: admission to Graduate Program, completion of all required ESECSC courses or concurrent enrollment. 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 if proposed by the student. Prerequisite: permission of instructor.

Education: School Counselor

ESECSC 610 PORTFOLIO DEVELOPMENT AND ASSESSMENT
1 credit
Portfolio development procedures and assessment strategies. Requires school counselor students to begin development of professional portfolio, including plan for professional development achieved through M.Ed. study. Prerequisite: admission to Graduate Program. Fall

ESECSC 621 FOUNDATIONS OF SCHOOL COUNSELING
An exploration of major theoretical approaches to school counseling. Includes case studies that illustrate strategies for intervention from an ecological perspective. Fall

ESECSC 641 SCHOOL LAW
Legal rights, duties and responsibilities of school personnel. School property, teaching contracts, tenure, personnel practices, special education, school safety, and prevention of injury and accidents to students are included in this study of education law practices. Prerequisite: admission to Graduate Program or permission of instructor. Spring

ESECSC 651 SCHOOL AND COMMUNITY RELATIONS
Principles and techniques of communicating effectively with school personnel and constituent community groups. Emphasis on interpersonal and group process communication techniques and the development of school public relations. Prerequisite: admission to Graduate Program or permission of instructor. Fall

ESECSC 652 BUDGET AND FACILITY MANAGEMENT
Study of and participation in the school budget process. Emphasis on budget development and management, state regulations and federal influences. Review of health, safety, curricular and co-curricular perspectives in building and facility management. Prerequisite: admission to Graduate Program or permission of instructor. Fall

ESECSC 697 INTERNSHIP
A supervised practical experience in educational leadership with seminar sessions addressing student, staff, parent, community and related issues. Prerequisite: Completion of all required ESECSC courses. 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 if 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 621 CONTEXT
FOR SPECIAL EDUCATION
Explanation 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 631 ASSESSMENT,
IDENTIFICATION, AND EVALUATION
Examination of purposes, outcomes, and applications of assessment, identification, and evaluation for educational planning and decision making. Use of formal and informal strategies including tests, observation, curriculum-based assessment, and criterion-referenced testing for IEP development and instructional planning. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610. Spring

ESECSP 641 LEARNING AND
LANGUAGE DEVELOPMENT IN
STUDENTS WITH SPECIAL NEEDS
Study of language and learning characteristics impact on participation and progress in instructional environments. Brain research, MI theory, memory, and attention will be explored in relation to achievement. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631 or concurrent enrollment. Summer

ESECSP 642 SOCIAL AND
EMOTIONAL DEVELOPMENT IN
STUDENTS WITH SPECIAL NEEDS
Advanced study of social, emotional, and behavioral characteristics of students with special needs. Emotional intelligence, brain research related to emotional development, moral development, and cultural perspectives will be explored. Includes models for understanding the student in the context of family, school, and community. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631. Summer

ESECSP 651 PLANNING INSTRUCTION
OF ACADEMIC SKILLS FOR STUDENTS
WITH SPECIAL NEEDS
Study of techniques and materials for teaching academic skills to students with identified special needs incorporating assessments. Includes study of methods for providing modifications in curriculum to enhance student learning. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631. Fall

ESECSP 652 PLANNING BEHAVIORAL
INTERVENTIONS FOR STUDENTS
WITH SPECIAL NEEDS
Developing a continuum of interventions for children with social, emotional, and behavioral developmental issues. Includes study of methods for providing modifications and support in regular classrooms, school-based interventions, and teaching social competence. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631. 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. Prerequisite: admission to Graduate Program or permission of instructor, ESECSP 610, ESECSP 621, ESECSP 631 (cross-listed with ESECCI 661). Spring

ESECSP 697 INTERNSHIP
Supervised practice related to focus of student’s professional portfolio development. Prerequisite: 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
Extensive practice in college level writing and reading. Students will write a variety of papers, including a docu-
mented 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
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
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
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
Selected topics in specific areas of creative, nonfiction, professional, or other modes of writing. May be repeated once as topics change. Prerequisite: ENG 101. Fall, Spring

ENG 209 LITERARY ANALYSIS
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. Must be taken prior to completion of 75 credits. Prerequisite: ENG 101. Fall, Spring

ENG 210 INTRODUCTION TO AMERICAN STUDIES
An interdisciplinary introduction of the nature, methodology, resources, premises, and problems of the American experience. Usually focuses on a particular decade. (Course also listed as AMST 210.) May be repeated once for credit as topics change. Prerequisite: ENG 101. Fall, Spring

ENG 220 READINGS IN BRITISH LITERATURE
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
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 245 READINGS IN AMERICAN INDIAN STUDIES
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

ENG 250 READINGS IN CONTINENTAL LITERATURE
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
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 260 READINGS IN WORLD LITERATURE
Reading and discussion of selected literary texts from the Ancient World, from Asia, Africa, and the Pacific. May be repeated once as topics change. Prerequisite: ENG 101. Spring

ENG 261 CLASSICAL LITERATURE OF GREECE
Exploration of the literature of ancient Greece; Homeric epic, Athenian drama, and Platonic dialogue. Prerequisite: ENG 101. Fall, Spring

ENG 271 CARIBBEAN LITERATURE
The Caribbean fuses European, African, Indian, Chinese, and Native American cultures. Topics may include discoveries, childhoods, slave narratives, shipwrecks, and emigration. Authors may include Columbus, Behn, Rhys, McKay, Danticat, and Walcott. Prerequisite: ENG 101. Fall, alternate odd years

ENG 280 CULTURAL STUDIES
Interdisciplinary study of texts and contexts. Texts examined may be selected from a number of fields. Topics may focus on popular culture, a cultural concept, a subculture, region, or period. May be repeated once as topics change. Prerequisite: ENG 101. Annually

ENG 285 GENRE STUDIES
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
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 287 ADOLESCENT LITERATURE
Survey of contemporary adolescent literature within its historical, social, educational, and political contexts. Includes discussion of adolescent reading patterns and trends. Prerequisite: ENG 101. Spring

ENG 288 SCIENCE FICTION
Survey of the characteristic themes and forms of science fiction. Prerequisite: ENG 101. Spring, alternate years

ENG 290 TOPICS
Selected topics in literature. May be repeated as topics change. Prerequisite: ENG 101. Annually

ENG 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. Prerequisite: ENG 101.

ENG 301 FICTION WORKSHOP
Discussion and evaluation of original manuscripts combined with reading and discussion of the theory of fiction. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 302 POETRY WORKSHOP
Class discussion of original student work combined with extensive reading in poetry and poetics. Analysis of major theories, technical innovations, and innovators. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 303 NON-FICTION WORKSHOP
Non-fiction essay writing, focusing on style, rhetorical theory and strategies, and publication. Workshop format. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 304 WRITING FOR TEACHERS
Focuses on improving the writing of future teachers and on demonstrating and developing methods for imparting these skills to their future students. Prerequisites: ENG 101 and one 200-level English course. Spring

ENG 308 ADVANCED TOPICS IN WRITING
Intensive study of writing techniques and applications in specialized areas of creative, nonfiction, or professional writing, as well as writing that does not easily fit into these categories. May be repeated once as topics change. Prerequisites: ENG 101 and one 200-level English course. Annually

ENG 312 DESCRIPTIVE GRAMMAR
Examination of English grammar and theory, including traditional, transformational-generative, and case grammar. Collateral readings will focus on applied linguistics and American dialects. Students develop skills for teaching grammar through written/oral exercises. Required for secondary English teacher certification. Open only to junior and senior English majors, or by permission of instructor. Prerequisites: ENG 101 and one 200-level English course. Fall

ENG 321 EARLIER ENGLISH LITERATURE
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 LATER ENGLISH LITERATURE
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. Every third semester, beginning Fall 1999

ENG 323 MEDIEVAL LITERATURE
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
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. Spring, alternate odd years

ENG 325 RENAISSANCE LITERATURE
Examines texts written in England from late 15th to late 17th century. Topics may include the English theatre, romance and epic, and lyric poetry. Authors studied may include Marlowe, Sidney, Donne, Wroth, and Jonson. May be repeated as topics change. Prerequisites: ENG 101 and one 200-level English course. Spring, alternate odd years

ENG 326 SHAKESPEARE: COMEDIES AND HISTORIES
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
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
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
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
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
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
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
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
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
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
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
Examines the major American Indian writers of the 20th century; emphasizes the ‘American Indian literary Renaissance.’ Historical, cultural, and aesthetic contexts will be 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
Examines literature from Europe, with a special emphasis on specific topics such as the Renaissance, the Enlightenment, 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
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
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
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 382 GREEK MYTHS
Descriptive study of the myths of the great Olympians (Zeus, Apollo, Artemis, et al.) from the creation to full participation of the gods in human affairs; the hero cycles and dynastic
houses. Uses of myths in literature and art. Prerequisites: ENG 101 and one 200-level English course. *Alternate years*

**ENG 383 THE FANTASTIC IN LITERATURE**
Studies the work of fantasy in literature, from ancient accounts of visionary adventure to modern fiction, drama, and poetry. Prerequisites: ENG 101 and one 200-level English course. *Every third Spring*

**ENG 390 STUDIES**
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**
This course examines the critical and theoretical contexts of various genres. Readings will include both theory and the genre under discussion. Students will be 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 410 THEORY**
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. *Annually*

**ENG 420 SINGLE FIGURE**
Intensive study of the works of one writer with emphasis on developing style, themes, and influence. May be repeated as topics change. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course. *Annually*

**ENG 490 ADVANCED STUDIES**
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**
Intensive study and exhaustive readings focusing on British literature, American literature, world literature, linguistics, drama, cultural studies, or literary theory. May be repeated for credit as topics change. Prerequisite: permission of instructor. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course. *Annually*

**ENG 498 INDEPENDENT STUDY**
1-6 credits
Independent reading and/or writing in a selected area of literature on a tutorial basis under direction of an English faculty member. May be repeated for a maximum of 6 credits. Prerequisites: ENG 101, one 200-level English course, and one 300-level English course.

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**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*

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**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 will be 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 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.

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, junior
standing. Spring

ENST 494 ADVANCED
COOPERATIVE EDUCATION
1-6 credits
Sequential work-learning experience for which compensa-
tion may be received. Placements arranged and super-
vised by Cooperative Education with approval and evalu-
ation by full-time faculty. Elective credit (normally 12
hours/credit) to maximum of 12 credits per degree pro-
gram. Prerequisites: ENST 294, 2.0 cumulative GPA, Decl-
ARATION 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 as-
psects of environmental studies. Emphasis on critical analy-
sis 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
Introduction to basic film technique, structure and aesthet-
cs through production of Super 8 film projects. Students
gain skills in narrative filmmaking through emphasis on
story, cinematography, editing, and directing. Course par-
ticipation demands outside-class production time and sub-
stantial student financial output. 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 pro-
duction. May be repeated for credit. By permission only.
Graded Pass/Fail. Fall, Spring

FILM 270 INTRODUCTION TO FILM ANALYSIS
Equips students with the tools necessary to become critical
viewers of film by introducing them to the elements of film
form, the process of textual analysis, and the variety of
filmmaking techniques employed in narrative and non-
narrative cinema. Fall, Spring

FILM 271 INTRODUCTION TO FILM HISTORY
Examines the history of film’s technical, aesthetic, indus-
trial, and social development within an international con-
text, 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
An exploration of areas not covered by the regular curricu-
lum. 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 cred-
its per degree program. Prerequisites: 24 total credits earned,
2.0 cumulative GPA and permission of instructor. Graded
Pass/Fail.

FILM 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.

FILM 350 FILM PRODUCTION II
16mm synchronous-sound, non-dialogue B & W course em-
phasizing pre-planning, script writing and development, and
pursuing advanced directing, cinematography, editing, sound
issues. Participation demands significant outside-class pro-
duction time and substantial student financial output. Films
designed to 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
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
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
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
An exploration of film production areas not usually addressed through 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
First semester of year-long course emphasizing pre-production for all crew positions toward production of 20-minute sync-sound, dialogue 16mm color project. Participation demands substantial student financial output. Films designed to be produced in crews of seven to nine; pre-arranged crews encouraged. Prerequisites: Grade of B or better in FILM 350 (or equivalent) and permission of instructor. Must be taken concurrently with FILM 451. Fall

FILM 451  ADVANCED PRODUCTION STUDIO
Film production studio emphasizing hands-on equipment, facilities, and techniques demonstrations. Prerequisites: Grade of B or better in FILM 350 (or equivalent) and instructor’s permission. Must be taken concurrently with FILM 450. Fall

FILM 452  FILM PRODUCTION IV
Second semester of year-long course emphasizing pre-production for all crew positions toward production of 20-minute sync-sound, dialogue 16mm color project. Participation demands significant outside class production time and substantial student financial output. Prerequisites: FILM 450, FILM 451 and permission of instructor. Spring

FILM 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.

FILM 495  SEMINAR
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, 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
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  INTENSIVE INSTITUTE: FRENCH
A week-long (5 day) all-day (8 a.m. – 5 p.m.) introduction to basic French, French history, and contemporary culture. The course makes extensive use of multimedia resources to include: interactive language programs, video, and the Internet. Summer

FR 101-102  ELEMENTARY FRENCH I & 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. Annually

FR 201-202  INTERMEDIATE FRENCH I & II
4 credits each
Continuation of the development of the four basic language skills. Fall, Spring

FR 210  READINGS IN FRENCH
Selected readings in French from literary texts, scholarly journals, magazines, newspapers, and web sites. Class discussions are mainly in English. Prerequisite: FR 102 or equivalent. Fall

FR 290  INTERMEDIATE SPECIAL TOPICS
Study of a selected topic in French. May be repeated as topics change.

FR 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
and the appropriate divisional dean. Repeatable to a total of 6 credits.

**FR 303 INTRODUCTION TO FRENCH LITERATURE**
A study of various critical approaches to French literature conducted in French. Prerequisite: FR 202, or permission of instructor. *Fall, alternate years*

**FR 315 CONVERSATION IN FRENCH**
The vocabulary of spoken French and guided practice to increase oral proficiency. Prerequisite: FR 202, or permission of instructor. *Spring*

**FR 316 COMPOSITION IN FRENCH**
Study and practice of French writing styles for various purposes: journals, letters, essays, and creative pieces. Prerequisite: FR 315, or permission of instructor. *Spring*

**FR 320 COMMERCIAL FRENCH**
The terminology and forms used in the French world of business. Practice with commercial correspondence. Prerequisite: FR 202, or permission of instructor. *Alternate years*

**FR 350 STUDY IN FRANCE OR QUEBEC**
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*

**FR 405 CONTEMPORARY FRENCH USAGE**
Advanced study of syntax, semantics, and lexicon based on actual usage in the contemporary Francophone world. Prerequisite: FR 315 or equivalent. *Alternate years*

**FR 495 SEMINAR**
The capstone experience for French majors. Topics based on needs and interests of the group. Prerequisites: FR 405 and senior status. *Spring*

**FR 498 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 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. Germaine 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
A worldwide study of the locations, characteristics and relationships of economic activities, including agriculture, mining, manufacturing, services, and consumption. Prerequisite: ECON 201, 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. 3-hour lecture, 2-hour lab. Prerequisite: CS 140 or permission of instructor. 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. Occasional 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. Spring

GEOG 405 INTRODUCTION TO LAND USE PLANNING
Introduction to land use planning processes. Includes a seminar and a supervised internship. Prerequisite: permission of instructor. Fall, alternate 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, 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: GEOG 294, 2.0 cumulative GPA, Declaration of major, and permission of instructor. May be repeated for credit. Graded Pass/Fail. Occasionally

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 faculty member. Topics contingent on student interest and available staff. Prerequisite: GEOG 100 and permission of instructor. May be repeated to a total of 6 credits. Occasionally

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. 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

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 201 or GEOL 100/101. Fall, even 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  GEOCHEMISTRY  
Abundance of the chemical elements and the principles of distribution and migration of elements in geological environments. Applications to selected examples. Prerequisites: CHEM 112/116 and GEOL 302, 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*

**German**

**GER 101-102  ELEMENTARY GERMAN I & 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. *Annually*

**GER 201-202  INTERMEDIATE GERMAN I & 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. *Annually*

**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 100  DRUGS, PERSONAL HEALTH & RISK ASSESSMENT***
1 credit
Addresses problems associated with high risk personal health behaviors with emphasis on alcohol and other drug misuse in the college setting. The physiological, sociological and psychological perspectives of health and impairment are evaluated and students develop a personal risk reduction program. *Fall, Spring*

**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. Cross-listed with PE 101. *Fall, Spring*

**HLSC 102  INTRODUCTION TO HEALTH SCIENCE***
1 credit
This course aids in development of awareness and knowledge of health promotion as a profession. Information is
presented regarding career opportunities, professional organizations, and the Health Sciences curriculum. Topics include bioindividuality, ethics of care, technological resources, and the wellness model. 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 will be introduced. Fall, Spring

HLSC 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: BIO 230/232 or permission of instructor. Cross-listed with PE 201. Fall, Spring

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 232/232. Fall, Spring

HLSC 215 NUTRITION SCIENCE AND APPLICATION

HLSC 216 FOOD AND PEOPLE INTERACTION
Introduction to the expected effects of economic, cultural, aesthetic, and socio-psychological constraints on food and people interactions. Analysis of effects of resultant food habits on dietary intake patterns and nutritional status. Prerequisite: HLSC 101, HLSC 214 or HLSC 215. 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. Special emphasis on learning how to read, interpret and apply information found in the scientific nutritional literature. Nutrition Option only. Taken concurrently with HLSC 215. Fall, 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. 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
Principles of food selection, preparation, and technology related to the needs of individuals and families. Introduction to physical and chemical changes in ingredients and nutrients during food preparation and storage. Development of professional skills. Manipulation of variables with class-representative foods. Prerequisites: HLSC 215 and CHEM 220/224. Uniforms required. Spring

HLSC 313 FOODSERVICE MANAGEMENT
4 credits
Theory and introductory practice in management of planning, directing, coordinating and controlling foodservice 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. Prerequisite: HLSC 215 and MGT 101. Concurrent with HLSC 315. Fall

HLSC 315 FOODSERVICE MANAGEMENT LAB
1 credit
Field experience, computer-based financial management in nutrition and foodservice management and foodservice sanitation certification course. Concurrent with HLSC 313. Uniform required. Prerequisite: MGT 101. Fall

HLSC 318 HEALTH AND WELLNESS IN THE LIFE CYCLE
Changing nutrition and wellness needs, physiology and health concerns pre-conception 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. Prerequisites: HLSC 201/PE 201, HLSC 214 or HLSC 215. Nutrition Option: take concurrently with HLSC 319. Fall, Spring
HLSC 319 LIFE CYCLE NUTRITION LAB  
1 credit  
The application of life cycle nutrition and wellness skills in the community. Students will work in supervised field placements to provide assessment, data collection, analysis and intervention. Life cycle will vary based on community needs. Nutrition Option only. Prerequisites: HLSC 215. Taken concurrently with HLSC 318. Fall, Spring

HLSC 320 NUTRITION, FITNESS & HEALTH  
Study the relationship between physical fitness and nutrition. Explore how diet influences physical performance. Review information and misconceptions surrounding food, fluids, and supplements. Understand the role of nutrition in enhancing performance, achieving desired caloric balance, and preventing disease and injury. Prerequisites: HLSC 201, HLSC 214 or HLSC 215 and BIO 230/232 and BIO 231/233. Spring

HLSC 330 PSYCHOLOGY OF SPORT AND EXERCISE  
Examines the influence of personality and social factors on meaningful social behavior in a variety of sport, recreation and exercise environments. The emphasis is on exploring the implications and application of the psychology of sport and exercise theories. Prerequisites: PSYC 101. Fall

HLSC 332 FITNESS TESTING  
Scientific principles of exercise testing and prescription. Laboratory experience included. Prerequisites: HLSC/PE 201 and HLSC major/Health Promotion & Fitness option or permission of instructor. Fall, Spring

HLSC 333 EXERCISE LEADERSHIP  
Scientific principles and practices of applied exercise programming, leadership and design and evaluation of programming. Laboratory experience included. Prerequisites: HLSC 332 and HLSC major/Health Promotion & Fitness option 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: PE 332 and HLSC Major/Health Promotion & Fitness Option, PE 191 or equivalent ARC First Aid and CPR Certifications 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 100, HLSC 101, and PSYC 101 or SOC 201, or permission of instructor. Junior standing or above. 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, teaming, presentation, and evaluation while facilitating behavior change for diverse individuals and groups. Prerequisites: COMM 171 and HLSC 101, HLSC 201, HLSC 214 or HLSC 215 and HLSC 380. Fall, Spring

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. Prerequisite: HLSC 385. Fall

HLSC 402 HEALTH PROMOTION MANAGEMENT  
Application of the theory and practice of management to the health sciences. Topics addressed 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 and MGT 101. Spring

HLSC 410 EXPERIMENTAL FOODS  
4 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. Taken concurrently with 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. Prerequisites: HLSC 215, BIO 153/154 and BIO 230/232. Taken concurrently with HLSC 417. 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. Concurrent with HLSC 416. Spring

HLSC 419 NUTRITION RESEARCH LAB
1 credit
Survey of research methodologies used 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. Taken concurrently with HLSC 415. Fall

HLSC 431 STRESS MANAGEMENT
This course explores the variety of stress management techniques, and examines the sources of stress from a psycho-social model perspective. Students will investigate their own personal stress and begin to develop formal stress reduction techniques and coping skills. Prerequisites: HLSC major/Health Promotion & 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 only. Fall, Spring

HLSC 445 HUMAN SEXUALITY
Examines human sexual development and behavior, including reproduction, sexual anatomy, psycho-sexual development, sexual socialization, values, and various forms of sexual expression. Prerequisites: courses in Biology, Sociology, and Psychology, junior standing, or permission of instructor. Fall, Spring

HLSC 472 ADVANCED PRACTICUM: HEALTH PROMOTION AND FITNESS
1-12 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. Maximum of 12 credits. Prerequisites: HLSC 372 or permission of instructor. Fall, Spring

HLSC 473 PRACTICUM: NUTRITION
Supervised field experience in community, clinical or foodservice 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 484 HELPING FAMILIES OF THE CHEMICAL ABUSER
1 credit
Studies the family as a system and its destruction when one of the members is a chemical abuser. Develops both theoretical and practical knowledge relating to interdependency of family members. Prerequisite: HLSC 380 or permission of instructor. Spring 2003

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. Prerequisites: HLSC 380 or permission of instructor. Fall, Spring

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 that is designed to 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, 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, Spring

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. The 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 will cover 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
An 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 post-war democratic experiment, that help explain the consolidation of a racially based totalitarian regime. Spring

HIST 253  THE SECOND WORLD WAR
Examines the origins and outbreak of WWII, the course of the war in both 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 are: 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 will be paid to the relationship between rhetoric and theology in the Bible. Fall, Spring

HIST 293 GREAT BOOKS I
This course will introduce students to a selection of the most important and influential texts, from Ancient Mesopotamia to Early Modern Europe, that have helped define western and world culture. Fall

HIST 294 GREAT BOOKS II
This course will introduce students to a selection of the most important and influential texts of the modern world. 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 either 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 kingdom 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. Spring

HIST 337 EUROPE: 1400-1600
Special attention is given 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 of 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 347 IRELAND SINCE 1600
Political, social, economic, and religious developments are studied to provide an understanding of the evolution of modern Ireland. Anglo-Irish relations and Ulster separatism are given particular attention. 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 who have taken HIST 353.) Spring

HIST 353 NAZI GERMANY & 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. (Not open to students who have taken HIST 352.)

HIST 357 HISTORY AND PHILOSOPHY OF SCIENCE: ORIGINS TO 1700
Examines the development of scientific thought and philosophy of science from their origins through the Scientific Revolution of the 17th century. Prerequisites: 6 credits of science coursework or permission of instructor. (Cross-listed as PHIL 357.) Fall

HIST 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 coursework or permission of instructor. (Cross-listed as PHIL 358.) Spring

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 the political, social, economic, 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, immigration, 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. Prerequisites: 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 374 LATIN AMERICA SINCE 1810
Beginning with the movements for independence, this course surveys Latin American history during the national period. Attempts at political stability, the effects of urbanization and industrialization on a traditional society, and the course of social evolution and revolution are studied. Fall, Spring

HIST 392 MODERNISM
Examines major cultural developments in Europe from 1880 to 1930. The works of figures such as Gide and Kafka, Schiele and Picasso, Schoenberg and Stravinsky, and Bergson and Nietzsche will be studied.

HIST 393 TOPICS IN HISTORY OF IDEAS
Examines a selected topic in intellectual history, cultural history, or history of philosophy. Readings will be 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 400 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

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.

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 required of the instructor who will supervise the independent study. 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.

Social Sciences (IDSS)

IDSS 150 TECHNOLOGY AND CIVILIZATION
The development of technological literacy through an examination of the evolution, utilization, 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 required of 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.

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 required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

IDSM 301 THE WEB OF SCIENCE I
This course is designed to provide extensive, hands-on experience in a laboratory setting for elementary education majors. Emphasis will be 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, ESEC 250, or permission of the instructor.

IDSM 302 THE WEB OF SCIENCE II
This course is designed to provide extensive, hands-on experience in a laboratory setting for elementary education majors. Emphasis will be 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 newswriting, photojournalism or graphic design for the Equinox. May be repeated for a maximum of 12 credits.

JRN 281 EXECUTIVE EDITOR
The editor-in-chief of the student newspaper. Responsible for all aspects of the editorial and business aspects of the
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; JRN 280 advised concurrently. **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. JRN 270 advised concurrently. 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. JRN 271 advised concurrently. 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. **Annually**

**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, odd years**

**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 responsibility to the public-at-large for what is transmitted. (Course also 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 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 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, script writing and production. News for closed circuit television at Keene State College. Lecture, practice and field work. JRN 272 advised concurrently. 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. Spring, 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. JRN 273 advised concurrently. 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 thereafter. 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 120/150 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
An examination of the principles underlying the management of organizational activities. Topics include: management theory and practice, organizational principles, marketing, accounting, human resources, financial systems, global management, operations, ethics, and the role of technology in managing organizations. Fall, Spring

MGT 202 QUANTITATIVE DECISION MAKING
An 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. Fall, Spring

**MGT 208 SMALL BUSINESS PRACTICUM**
Under faculty supervision, students work with local business by assisting senior students in Small Business Institute projects. Prerequisite: permission of instructor.

**MGT 213 INTRODUCTION TO ACCOUNTING I**
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: accounting profession, double-entry accounting system, information systems, ethics, taxation, and internal control systems. Fall, Spring

**MGT 214 INTRODUCTION TO ACCOUNTING II**
A continuation of MGT 213. Additional topics include: product and service costing, cost analysis, financial statement analysis and financial instruments. Prerequisite: MGT 213, or permission of instructor. Fall, Spring

**MGT 290 SPECIAL TOPICS**
1-3 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. Pass/Fail. Spring

**MGT 294 COOPERATIVE EDUCATION**
1-6 credits
Introductory work-learning experience related to career interests, for which compensation may be received. Placements approved 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. Frequently

**MGT 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.

**MGT 301 ORGANIZATIONAL THEORY AND BEHAVIOR**
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**
This course 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. Prerequisite: MGT 213 and junior standing, or permission of instructor. Occasionally

**MGT 308 SMALL BUSINESS ENTREPRENEURSHIP**
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.

**MGT 311 INTERMEDIATE ACCOUNTING I**
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.

**MGT 312 INTERMEDIATE ACCOUNTING II**
Explores such additional topics as intangibles, investments, time value of money, application of present value techniques, issuance of capital stock, stock rights, options, warrants, convertible securities, reacquired stock, retained earnings, dividends, earnings per share and other relevant areas. Prerequisites: MGT 311 and junior standing, or permission of instructor.

**MGT 319 FINANCIAL MANAGEMENT**
Sources of funds, revenues, costs, cash flow, analysis of financial performance, leverage, managing cash, accounts receivable, credits and collections, inventory, financial plan development, time value of money, criteria for investment decisions, and the relationship of the financial system to the economy. Prerequisites: MGT 202, MGT 214 and junior standing, or permission of instructor. Fall, Spring
MGT 324  HUMAN RESOURCE MANAGEMENT
This course provides students with an 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
A 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
The role of advertising and promotion in society and in the marketing mix of the firm. Tools of promotion, budgetting, 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.

MGT 345  OPERATIONS MANAGEMENT
Gives students the opportunity to learn basic operations management techniques in order 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
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 360  INTERNATIONAL MANAGEMENT
This course focuses on the challenges faced by managers in the international business environment. Topics include international organizations, the international monetary system, and the foreign environment, including cultural, physical and financial forces. Recommended in conjunction with international exchange. Prerequisites: MGT 101 and 213 and junior standing, or permission of instructor.

MGT 381  MANAGEMENT INFORMATION SYSTEMS
Studies managerial uses of computers and typical business programs and applications. Includes organizational considerations of computer installation, concepts of data base management, management information systems, applications in forecasting, analysis, finance, executive decision making, problems in computer security, and operations research. Reviews hardware, software, systems design, and project management. Prerequisites: MGT 202, 213, and junior standing, or permission of instructor. Fall, Spring

MGT 402  ORGANIZATIONAL DEVELOPMENT
An 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. Prerequisites: MGT 301, MGT 324 or permission of instructor.

MGT 408  SMALL BUSINESS INSTITUTE
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
Studies the investment of funds by individuals and institutions, including budgeting of insurance, risks, speculation, income, real estate, pensions, savings, stocks and bonds, analysis of types of investments and security markets, and mechanics of investing. Prerequisites: MGT 319 and senior standing, or permission of instructor.

MGT 417  TAXATION
Emphasizes basic federal taxation of individuals, partnerships, and corporations. Concepts of income, gain or loss, dividends, deductions as defined in the Revenue Code, and preparation of simple tax returns. Discusses New Hampshire business taxes. Prerequisites: MGT 214 and senior standing, or permission of instructor. Alternate years

MGT 422  LABOR RELATIONS
Covers history of the labor movement, labor relations policy and practice, contract negotiations, application of Labor Management Relations Act (LMRA) as amended, collective bargaining theory and practice, and legal constraints. Prerequisites: MGT 324, and senior standing, or permission of instructor.

MGT 425  COMPENSATION
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. Every second or third year.

MGT 434 MARKETING RESEARCH
A 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.

MGT 435 MARKETING MANAGEMENT
Utilization 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.

MGT 451 SOCIAL, LEGAL, AND POLITICAL ENVIRONMENT OF BUSINESS
Advanced study of management philosophy and practice. Focus is upon 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, 345, and senior standing, or permission of instructor.

MGT 490 ADVANCED SPECIAL TOPICS
1-3 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.

MGT 491 BUSINESS POLICY AND STRATEGY
A 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, completion of all requirements in Management Core Curriculum, or permission of instructor. Fall, Spring

MGT 493 MANAGEMENT INTERNSHIP
3-6 credits
An opportunity to compare management theory with practice through on-the-job experience in participating organizations. Regular meetings with the instructor insure maximum learning. Cannot be taken concurrently with MGT 408. Grade is based on evaluation of a research paper. May be repeated for a maximum of 6 credits.

MGT 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: MGT 294, 2.0 cumulative GPA, declaration of major, and permission of instructor. May be repeated for credit. Graded Pass/Fail.

MGT 495 SEMINAR
1-3 credits
Exploration of major areas of management under direction of Management faculty. Subject matter contingent upon student interest. Prerequisite: Management majors only, junior standing, or permission of instructor. Repeatable to a maximum of 3 credits. Fall, Spring

MGT 498 INDEPENDENT STUDY
1-6 credits
Advanced individualized study in an area of management not normally available in the curriculum. May be repeated to a total of 6 credits. Prerequisites: junior standing and permission of instructor.

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 include: 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 115 CONTEMPORARY MATHEMATICS
Intensive review of the basic mathematics needed for success in MATH 171 Structure of Number Systems. Topics include: 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 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 will be 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: 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. Utilizes appropriate grade-level technology. Prerequisite: A grade of C or better 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: 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, the 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, non-parametric statistics, and computer applications. Prerequisite: MATH 141 or PSYC 251 or SOC 302. Spring

MATH 251 MULTIVARIATE CALCULUS
4 credits
Vectors, partial derivatives, multiple integrals, and line and surface integrals. Prerequisite: MATH 152. Fall, Spring

MATH 260 NUMERICAL METHODS
Programming of scientifically-oriented problems. Topics include quadrature, interpolation, curve fitting, and the solution of non-linear equations. Error analysis is made whenever feasible. Prerequisites: CS 140 or 180 and MATH 152 (may be taken concurrently). 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. Prerequisite 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 required of 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 will be 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: A grade of C or better in MATH 225. Fall

MATH 331 MODERN ALGEBRA  
Basic concepts of groups, rings, and fields. Prerequisite: A grade of C or better 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: A grade of C or better in MATH 225. Spring, odd 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: MATH 251 and a grade of C or better in 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 will be 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, 225, 235, and 275. Spring

MATH 453 COMPLEX VARIABLES  
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. Offered alternate years. Fall, even years

MATH 468 INTRODUCTION TO APPLIED MATH  
Introduction to selected topics, such as Fourier series, vector analysis, special functions, and partial differential equations. Prerequisite: MATH 361. Offered alternate years. 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. The emphasis is on the content of Mathematics and its interface with current major issues in Mathematics education. Prerequisite or corequisite: MATH 310. Fall

MATH 490 ADVANCED SPECIAL TOPICS  
Topics from fields in pure and applied Mathematics. Prerequisite: permission of instructor.
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 required of the instructor who will supervise the independent study. Repeatable to a total of 6 credits.

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. Spring

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.

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 required of 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 with permission of the instructor. Applied Music courses are available 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 Applied Music for 4 credits. Fall, Spring
MU 103 FUNDAMENTAL MUSIC SKILLS
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 towards a Music major or minor. Fall, Spring

MU 105 VOICE CLASS I
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 106 VOICE CLASS II
1 credit
A continuation of MU 105. More advanced study and development of vocal techniques. Emphasis on performing vocal literature. Prerequisite: MU 105 or permission of instructor. May be repeated. Spring, occasionally

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 I
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 111 GUITAR CLASS II
1 credit
Expansion of chord vocabulary, accompaniment styles and single-line melodic playing through the fifth position. Prerequisite: MU 110 or audition and written permission of instructor.

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
A 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

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
Introduction to terminology, key systems, melodic and harmonic structures, and basic formal elements of tonal music through writing and analysis. 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
A continuation of MU 151. Harmonic structures through the dominant seventh chord. Emphasis on figured bass and chordal analysis. Formal applications of rhythm and pitch organization through analysis. Prerequisite: MU 151 with a grade of C or better, or permission of instructor. Fall, Spring

**MU 161 SIGHT SINGING I**

1 credit
Introduction to Solfege. Beginning techniques of sight singing non-modulating tonal melodies. Prerequisite: MU 131 with a grade of C or better, or permission of the instructor. Fall, Spring

**MU 162 SIGHT SINGING II**

1 credit
Continuation of MU 161. Includes modulating melodies. 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 small vocal and instrumental 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 will be 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 INTRODUCTION 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; computer engraving. Also includes listening to examples of electronic music. Prerequisite: computer literacy and MU 152, or permission of instructor. Fall, Spring

**MU 212 MUSIC IN AMERICA**
Studies 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. 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**
Studies jazz from its origins through modern developments. Ethnic backgrounds, contributing factors, style characteristics, and interrelationships, literature, and performers. Fall, Spring
MU 220 MUSIC EDUCATION TECHNOLOGY
1 credit
An introduction to materials of Music Education Technology. Includes applications of current software, hardware for notation, sequencing MIDI, and computer-assisted instruction. Prerequisite: 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 in teaching. Fall, Spring

MU 223 STRING METHODS I
1 credit
Class instruction in string performance, pedagogy, methods, materials, and basic instrument maintenance. Two instruments will be studied. Prerequisite: Music major or permission of instructor. Meets first half of semester only. Spring

MU 224 STRING METHODS II
1 credit
Continuation of MU 223. Additional stringed instruments will be studied. Prerequisite: MU 223. Meets for second half of semester only. Spring

MU 225 BRASS METHODS I
1 credit
Class instruction in brass performance, pedagogy, methods, materials, and basic maintenance. Two brass instruments will be studied. Prerequisite: Music major or permission of instructor. Meets for first half of the semester only. Fall

MU 226 BRASS METHODS II
1 credit
Two additional brass instruments will be studied. Prerequisites: MU 225 and major in Music. Meets for second half of the semester only. Fall

MU 227 WOODWINDS METHODS I
1 credit
Class instruction in woodwind performance, pedagogy, methods, materials, and basic maintenance. Two woodwind instruments will be studied. Prerequisite: Music major or permission of instructor. Meets for first half of the semester only. Spring

MU 228 WOODWIND METHODS II
1 credit
Continuation of MU 227. One or two additional woodwind instruments will be studied. Prerequisites: MU 227 and major in Music. Meets for 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 for 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 – Spring, even years; guitar – Spring, odd years

MU 237 VOCAL PEDAGOGY
This course includes the study of the 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
This course is the study of 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
A continuation of MU 152. Borrowed and altered chords, secondary dominants, augmented sixth chords, modulation through writing and analysis. Prerequisite: MU 152 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 252 MUSIC THEORY IV
2 credits
A continuation of MU 251, with introduction to linear and vertical structures of 20th century tonal music. Continuation of basic formal analysis. Prerequisite: MU 251 with grade of C or better, or permission of the instructor. Fall, Spring
MU 255  PRINCIPLES OF MUSIC EDUCATION
1 credit
Studies historic developments in music education in America, reviews current learning principles, practices and issues, and other aspects of educational philosophy which influence music teaching. Classroom observations are required. Spring

MU 261  SIGHT SINGING III
1 credit
Continuation of MU 162. Includes chromatic melodies. Prerequisite: MU 162 with a grade of C or better, or permission of the instructor. Fall, Spring

MU 262  SIGHT SINGING IV
1 credit
Continuation of MU 261. Includes non-tonal and atonal 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 required of 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
Study of basic conducting techniques, providing 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. Study of more advanced conducting techniques used in both instrumental and choral ensembles. Prerequisite: MU 315 with a grade of C or better. Spring

MU 320  ARRANGING
2 credits
Study of instrumental and vocal arranging; score analysis, traditional and electronic notation, a review of ranges, clefs and transpositions; transcription of excerpts for various idioms (e.g., chamber ensembles, choruses, bands and orchestras). Prerequisite: MU 252 or permission of instructor. Fall

MU 325  VOCAL PEDAGOGY
2 credits
Includes study of methods of teaching voice. At all levels study concentrates on physiology of the vocal mechanism, materials and song literature available for students at various levels, and observation of voice lessons taught by faculty. Prerequisite: one year of applied vocal study and permission of instructor.

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, even years; guitar - Spring, even years

MU 355  GENERAL MUSIC K-12
Planning, teaching, and evaluating music lessons for general music classes K-12. Functional playing skills on classroom instruments will be developed. Observations and field teaching experience required. Prerequisites: Admission to Teacher Education and MU 255, or permission of instructor and completion of Piano Proficiency Test. Fall

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 will be stressed. Prerequisites: Admission to Teacher Education, 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
Study of 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 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 17th century to the early 19th century. Major attention will be given to the Continental Rationalists, 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 deconstructionism. 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 350 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 permission of instructor. *Fall*

PHIL 357 HISTORY AND PHILOSOPHY OF SCIENCE: ORIGINS TO 1700
Examines the development of scientific thought and philosophy of science from their origins through the Scientific Revolution of the 17th century. Prerequisites: 6 credits of science coursework, or permission of instructor. (Cross-listed as HIST 357.)

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 coursework, 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 authority. 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 will be 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 will be 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 will be 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

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 101 HEALTH AND WELLNESS: TRENDS AND ISSUES
Covers the basic factual information in the various content areas of health education. This course is designed for students who intend to major in Physical Education. Cross-listed with HLSC 101. Fall, Spring

PE 140 ORIENTATION TO ATHLETIC TRAINING
1 credit
Orientation to Athletic Training as a career choice. Development of basic skills and knowledge needed to work in an athletic training environment. Must be taken concurrently with Application to the Athletic Training Program. Fall

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
151 Intermediate Swimming Spring
152 Aquatics Conditioning Fall
154 Lifeguard Training (Note: Candidates must pass a swimming competency pre-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 pre-test given on the first day of class.) 2 credits Spring

PE 160-164 PHYSICAL CONDITIONING
161 Strength Training Fall, Spring
162 Tension Control Fall, Spring

PE 175-184 INDIVIDUAL/DUAL SPORTS
177 Golf Fall
181 Tennis Fall

PE 185-190 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, 231, 232, and 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: BIO 230, 231, 232, and 233, or permission of instructor. Cross-listed with HLSC 201. 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. (Not open to students who have completed PE 310.) 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/Athletic Training Option, 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/Athletic Training Option, or permission of instructor. Spring

PE 242 CLINICAL R.O.M.
1 credit
Theory and techniques of goniometric range of motion testing and clinical applications for the design of range of motion rehabilitation programs. Prerequisites: PE 200 and PE major/Athletic Training Option or permission of instructor. 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 the use of isotonic and isokinetic equipment. Prerequisite: PE major, or permission of instructor. Fall, Spring

PE 244 CLINICAL EXERCISE THERAPY
2 credits
Principles of conditioning programs including aerobic, flexibility, strength and power components. Design and modification of rehabilitation protocols based on evaluation of structural and functional pathology and postural and gait modification. Prerequisites: PE 200, 201, and 243 and PE major/Athletic Training Option, or permission of instructor. Fall

PE 245 MANUAL MUSCLE FUNCTION TESTING
1 credit
Theory and techniques of manual muscle function testing and clinical applications as a therapeutic adjunct for the prevention, treatment and rehabilitation of sports injuries. Prerequisites: PE 200 and PE major/Athletic Training Option, or permission of instructor. Spring

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/Teacher Certification option, or permission of instructor. Fall

PE 256 RHYTHMS
1 credit
Develops skill and knowledge to perform and teach selected rhythmic activities. Teaching emphasis on cueing. Prerequisite: 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 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. Prerequisite: 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. Prerequisite: 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/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. Prerequisite: 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/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/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/Teacher Certification option, or permission of instructor. Spring

**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 major/Teacher Certification option, or permission of instructor. Fall

**PE 288 SOCCER/SPEEDBALL**
1 credit
Develops skill and knowledge to perform and teach soccer and speedball. Teaching emphasis on skill demonstration/explanation. Prerequisite: PE major/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 311 SPORT IN AMERICAN CULTURE**
The awareness and relevance of sport as a social institution and its relationship to American culture. Prerequisite: junior/senior standing, or permission of instructor. 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 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/Athletic Training Option, or permission of instructor. Spring

**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: PE 100, CHEM 100 or CHEM 103/107 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/Teacher Certification option, or permission of instructor. Spring

**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/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. Prerequisite: PE major/Teacher Certification option, or permission of instructor. Fall

**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/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 school level, apply knowledge of elementary school children, and understand the role of Physical Education within the school curriculum. Maximum of 6 credits. Prerequisites: PE 255, 360 (minimum grade of C), admission to the PE major/Teacher Certification option, and admission to Teacher Education. Cannot be taken concurrently with PE 376. Fall, Spring

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 360 (minimum grade of C), admission to the PE major/Teacher Certification option, and admission to Teacher Education. 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 240, PE 373 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 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 242, 245, 340, 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 myofacial release. Examines pathology of disease process. Prerequisites: PE 340, 383, 440 and PE Major/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, 383 and PE 440 and PE major/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, 440, 441, 483 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 340, 342, 373, 383 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 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: Math 120 or demonstrable skills and mastery of college-level algebra, right triangle trigonometry and geometry concepts, and scientific notation. Co-requisite: Must take laboratory, which is an integral part of the course. Fall, Spring

PHYS 142 COLLEGE PHYSICS II
4 credits
A 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. Co-requisite: 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 will be treated. Prerequisite: MATH 120 or 130 or 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, Chem/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 required of 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 339  CLASSICAL MECHANICS
Analytical treatment of Newton’s laws and their application to problems of the kinematics and dynamics of particles and rigid bodies, oscillations, generalized coordinates, Hamilton’s and Lagrange’s equations. Prerequisite: PHYS 245; corequisite: MATH 361. 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 375-376  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’ Law, the Poisson and Laplace equations, properties of dielectrics, electric current, Ampère’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
A 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
A 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 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 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 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 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 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. 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.

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 required of 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 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 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 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 or 205, or HIST 161 or 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 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, contemporary policies and problems. Prerequisite: POSC 201 or 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: Nine 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: nine credits in Political Science, or permission of instructor. Fall, even years

POSC 451 POLITICS OF DEVELOPING AREAS
Economic and political manifestations of poverty, dependence, and development in the non–industrial world. Area foci may include Latin America, Africa, the Middle East, and Asia. Prerequisites: nine credits in POSC, or permission of instructor. Spring, odd 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: nine 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 cum. 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 cum. 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**  
A systematic study of the development, dynamics, and structure of human personality, including major aspects of methodology, theory, and research. Prerequisite: PSYC 101, or permission of instructor. *Fall, Spring*

**PSYC 251 PSYCHOLOGICAL STATISTICS**  
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 and one of BIO 100, 200, 202, 230, or permission of instructor. *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. Must be taken concurrently with 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 required of 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
An examination of the methodologies, theories, and research that emphasize the 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, neo-behavioristic, 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 theory. Prerequisites: PSYC 343 or PSYC 345 and junior standing, or permission of instructor. Fall, Spring

PSYC 451 MOTIVATION
Examines factors which 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 expected 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 695 GRADUATE SEMINAR
Considers major areas of psychology under direction of Psychology faculty. Subject matter contingent on student and faculty interest. Prerequisite: permission of instructor.

PSYC 698 GRADUATE INDEPENDENT/DIRECTED STUDY
1-4 credits
Individual study or research in selected topics in Psychology under direction of a faculty member. Prerequisites: graduate standing and permission of instructor. May be repeated for a total of up to 8 credits.

Sociology

SOC 201 INTRODUCTORY SOCIOLOGY
A systematic study of society and social organization, relationships of culture and social interaction to human behavior, analysis of group phenomena, and social organization, social stratification, and the processes of social change. Fall, Spring

SOC 203 SOCIOLOGY PROSEMINAR
1 credit
This course enhances student preparation for the major and a career in sociology, anthropology, 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 201 and sophomore standing. Fall, Spring

SOC 210 CULTURAL ANTHROPOLOGY
Introduction to concepts and methods of cultural anthropology and their application to contemporary and ethnohistorical small-scale as well as complex societies around the world. Fall, Spring

SOC 211 ARCHAEOLOGY AND PHYSICAL ANTHROPOTOLOGY
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 archaeology. 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 employed to introduce the beginning student to the process of criminal justice in the United States. Fall, Spring

SOC 225 SOCIAL PROBLEMS
An analysis of the phenomena of individual and group disorganization from the behavioral science viewpoint. Problems of alcoholism, drug addiction, crime, divorce, and suicide studied within the context of the sociocultural milieu and social change. Prerequisite: SOC 201, or permission of instructor. Fall, Spring

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. Prerequisite: SOC 201 and SOC 225 or permission of instructor. Fall, Spring

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 hours lecture; 2 hours lab. Prerequisite: SOC 201. 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 hours lecture; 2 hours lab. Prerequisite: SOC 301. Fall, Spring

SOC 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: SOC 210, or permission of instructor. Fall

SOC 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: SOC 201 or SOC 210, or permission of instructor. Fall
SOC 316 CULTURES OF SOUTHEAST ASIA
A cultural anthropological investigation of the diversity of cultures in Southeast Asia. Focus on the variety of economic and religious traditions in the area. Prerequisite: SOC 201 or SOC 210 or permission of instructor. 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 201 or POSC 201 or 205, 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 201 or permission of instructor. Fall

SOC 326 HOLOCAUST AND GENOCIDE
Analyzes the Holocaust and other acts of genocide from a comparative, sociological perspective and applies relevant theories/concepts. Investigates hate groups as well as human rights organizations committed to ending ethnic violence. 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 201, or permission of instructor. Spring

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 201, or permission of instructor. Spring

SOC 401 SOCIOLOGICAL THEORY
An analysis of the important literature in the development of sociological thought during the past century and a half. Characteristics of schools of sociological theory and their contributions to research. Prerequisites: SOC 301 and 302. Fall, Spring

SOC 425 RACE RELATIONS
The application of basic sociological concepts and principles to understanding relationships between people who differ in racial and/or ethnic backgrounds. Considers racism, prejudice, discrimination, minority responses, and techniques for reducing conflict, using the Black American as an example. Prerequisite: SOC 201, or permission of instructor. Spring

SOC 435 FIELD WORK
Student will have an opportunity to apply sociological and/or anthropological perspectives to a community, organization, group or other research site for 8 - 10 hours and to participate in a supervisory seminar. Prerequisites: SOC 210, SOC 301 and permission of instructor. Fall, Spring

SOC 450 INDIVIDUAL IN SOCIETY
Examines the symbolic interactionists’ approach to the analysis of human behavior, beginning with a discussion of the theories of Mead, Cooley, and Thomas and continuing through the contemporary theorists. Explores symbolic interaction research on conforming and deviant behavior. Students carry out a research project applying the symbolic interactionists’ perspective. Prerequisite: SOC 201, or permission of instructor. Fall, even years

SOC 472 SOCIOLOGY OF HEALTH
Analyzes social and cultural factors affecting health and illness, the search for medical care and the adoption of the illness role, particularly the influences of social class, race, gender, and age. Considers the dominant health care model of the USA and alternative health care systems. Prerequisite: SOC 201, or permission of instructor. Fall, odd years

SOC 475 SOCIAL STRATIFICATION
Differential reward and ranking in societies and the characteristics/effects of open and closed systems of social inequality. How the unequal distribution of wealth, power, and prestige among individuals/groups impacts on “life chances.” Social mobility and status attainment in the U.S. Prerequisite: SOC 201, or permission of instructor. Fall

SOC 490 ADVANCED SPECIAL TOPICS
Independent reading and research in selected areas of Sociology and Anthropology on a tutorial basis under supervision of a Sociology faculty member. Prerequisites: SOC 201 or 210 and permission of instructor. Fall, Spring

SOC 494 COOPERATIVE EDUCATION
Work–learning experience for which compensation may be received. Placements arranged and supervised by cooperative education with approval and evaluation by full–time faculty. Credit to maximum of 6 credits. Prerequisites:
SOC 201, 301, declaration of major and permission of instructor. May be repeated for credit. Graded pass/fail. 
Fall, Spring

SOC 495 SEMINAR
Exploration of major areas of sociology and/or anthropology under direction of Sociology faculty. Seminar subject matter contingent upon student interest and available staff. Prerequisite: SOC 201 or 210, or permission of instructor. Occasionally

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 INTENSIVE INSTITUTE: SPANISH
A week long (5 day) all-day (8 a.m. – 5 p.m.) introduction to basic Spanish, Spanish history, and contemporary culture. The course makes extensive use of multimedia resources to include: interactive language programs, video, and the Internet. Summer

SP 101-102 ELEMENTARY SPANISH I & 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. Annually

SP 201-202 INTERMEDIATE SPANISH I & II
4 credits each
Continuation of the development of the four basic language skills. Fall, Spring

SP 210 READINGS IN SPANISH
Selected readings in Spanish from literary texts, scholarly journals, magazines, newspapers, and web sites. Class discussions are mainly in English. Prerequisite: SP 102 or equivalent. Spring

SP 290 INTERMEDIATE SPECIAL TOPICS
Study of selected topics in Spanish. May be repeated as topics change. Annually

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
A 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. Alternate years

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. Alternate years

SP 410 ADVANCED SPANISH GRAMMAR
A study of contemporary Spanish grammar, and a treatment of the typical pitfalls for non-native users of Spanish. Prerequisite: SP 405, or permission of instructor. Spring, alternate years

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.

**Special Education**

**SPED 290  SPECIAL TOPICS**
*1-3 credits*
Exploration and analysis of special topics in Special Education.

**SPED 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, Summer*

**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 required of 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 will be addressed. Prerequisites: 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. Prerequisite: SPED 301. *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. 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. 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*

**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 525  TRANSITION PLANNING AND PROGRAMMING**
Examination of the transition from secondary school environments to post-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

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 utilizing 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 will be 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 will be 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, Spring

TDS 210 LINEAR INTEGRATED CIRCUITS
Design and application of analog (non-digital) 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 will be 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 will be 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. 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. Projects of increasing complexity will be undertaken. 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. Prerequisites: Product Design I, 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 utilizing fabrication, pattern development, casting processes, and welding techniques. Project planning, implementation, and evaluation will be 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 institu-
tional environments. Special emphasis is placed on inspection procedures and methods of preventing, detecting, and extinguishing common industrial fires. Prerequisite: TDS 181, 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. Prerequisite: TDS 181, or permission of instructor. 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. Place- ments 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 required of 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 are used to 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 TDS 113. Fall, alternate years

TDS 313 MICRO COMPUTERS
An advanced digital electronics course which explores the architecture, operation, and practical applications of micro-computers 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 352  PRODUCT DESIGN III
This course is the third in the Product Design series. Specific design projects will be 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 353  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 355  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 375  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 381  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. Prerequisite: TDS 181 or 284. Fall, Spring

TDS 382  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. Prerequisite: TDS 284, or permission of instructor. Fall, Spring

TDS 385  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 and acceptable driving record, TDS 283, or permission of instructor. Summer – Continuing Education

TDS 387  ACCIDENT INVESTIGATION
A study of the various techniques and procedures used in investigating accidents, with special emphasis on those procedures utilized in the industrial environment. Case studies and actual accident scenarios will be used as part of the course. Prerequisite: TDS 284, or permission of the instructor. Fall, Spring

TDS 400  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 406  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 410  EMBEDDED CONTROL SYSTEMS
Ad 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 420  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 480 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, or permission of the instructor. Fall, Spring

TDS 481 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 will be studied. Prerequisites: TDS 281 and 284, or permission of instructor. Fall, 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. Prerequisite: TDS 284. Fall, Spring

TDS 487 SYSTEM SAFETY
A study of system safety as a technique in the management of industry and the environment utilizing quantitative and qualitative methods of analysis to control risk. Topics include a variety of analytical techniques which are applied to practical systems. Prerequisite: TDS 284, or permission of instructor. Fall, Spring

TDS 488 CONTEMPORARY ISSUES AND METHODS IN TRAFFIC SAFETY EDUCATION
The professional preparation of secondary school traffic safety teachers. Emphasizes techniques of instruction, certification, research, multimedia public relations, and the organization and administration of traffic safety programs. Prerequisite: TDS 385, or permission of instructor. Summer – Continuing Education

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. Prerequisite: 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. Must be taken concurrently with TAD 123–124. *TAD 121 Fall, TAD 122 Spring*

**TAD 123-124 THEATRE LABORATORY I, II**
1 credit each
Production training in theatre. Students will be assigned to either the costume shop or the scene shop. Projects are assigned according to departmental 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 utilization of design theory through visual projects. *Fall, Spring*

**TAD 201 FUNDAMENTALS OF 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. Students in this course must audition for all Keene State Theatre productions. *Fall, Spring*

**TAD 202 FUNDAMENTALS OF 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: one of the following: TAD 101, 121, or 201. *Fall, Spring*

**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, traveling 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**
Theory and principles of movement in relation to child development, other aspects of education and the learning process. Exploration and discovery of one's own movement potential and creativity. Readings, observations, peer teaching. *Fall*

**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. Taken concurrently with TAD 225, 227, 361, 362 and 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. Taken concurrently with 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. Prerequisite: 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 261 STAGE DRAFTING
Drafting for scenic design and stagecraft. Techniques for drafting, floorplans, elevations, perspectives, working drawings, etc. Prerequisites: TAD 121 and 122, or permission of instructor. 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 resonation. 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 credit
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 INTERMEDIATE ACTING I
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 132 and TAD 202, or permission of instructor. Fall

TAD 302 INTERMEDIATE ACTING II
A continuation of TAD 301, with concentrated work on traditional and experimental rehearsal techniques and styles of performance. Prerequisites: TAD 101, 131 or 132, and 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, 131, 132, 201 and 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, and progressively more difficult dance technique. A variety of sources for choreography is explored as students learn to create dance studies as individuals and groups. Theatrical aspects of dance are included as preparation for a performance in the spring. Some written work. 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 both the craft and the art of making dances through application of compositional theory to the materials of dance, improvisation, developing creative resources, theatrical elements. Movement studies, readings, journals, paper and choreographic project usually required. Prerequisites: two modern dance courses or permission of the instructor. 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, 131 and junior class standing, or permission of instructor. Fall, odd years

TAD 335 AMERICAN MUSICAL THEATRE
The foundation and rise of musical theatre in the U.S. beginning with European influences. Explores dramatic, social, and musical implications of contemporary society which produced a unique American musical idiom. Examines works of Victor Herbert, Gershwin, Porter, Blake, Sondheim and others. Prerequisite: TAD 101.

TAD 352 STUDIES IN CRITICAL THEORY
Using an historical perspective, examines Critical Theory as it applies to Theatre, Dance, and Film. 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, 121, 131, 132, 162, and 261, or permission of instructor. Fall

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, 121, 131, 132, 162, or permission of instructor. Spring, odd 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, 121, 131, 132, 162, or permission of instructor. Spring, even 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 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

Vocational Education

VE 207 RELATED OCCUPATIONAL TRAINING
1-15 credits
Designed for students who wish to expand their occupational competency by attending approved business, college, or industry schools, seminars, or workshops. Prerequisite: evaluation and approval by the student’s program advisor. Fall, Spring

VE 208 DEMONSTRATED OCCUPATIONAL COMPETENCE
1-36 credits
Students with two or more years of occupational experience beyond the recognized learning period may be awarded up to 36 credits. The number of credits awarded is determined by the results of a standardized occupational competency examination, professional licensure, or recognized equivalents. Fall, Spring

VE 209 COOPERATIVE OCCUPATIONAL INTERNSHIP
1-25 credits
Students secure employment in supervised and approved work situations to further their skills, technical competence, and attitudes in their areas of specialization. They are expected to experience various roles in business and/or industry to expand their occupational competence. 120 hours per credit. Graded Pass/Fail. Prerequisite: permission of instructor. Fall, Spring

VE 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.

**VE 353 TEACHING VOCATIONAL EDUCATION**
Examination of appropriate instructional methods and media, including class and laboratory management, and evaluation procedures. Fieldwork in the vocational schools of the state is assigned. Available only through the New and Returning Vocational Teacher Certification Program. See the TDS Department Coordinator. *Spring*

**VE 401 VOCATIONAL TEACHING INTERNSHIPS**
8 credits
A clinical experience in which the student acquires a fuller understanding of the principles, attitudes, and techniques related to a successful teaching career. Directed practice under guidance of the College supervisor. Open only to matriculated students who are currently teaching in a vocational school in the vocational area for which they are seeking certification. Graded Pass/Fail. *Fall, Spring*

**VE 403 INTRODUCTION TO SPECIAL NEEDS IN VOCATIONAL EDUCATION**
An introduction to the nature and needs of handicapped and disadvantaged students in vocational programs. Covers legislation, philosophy, and identification of secondary students with special educational needs. Includes individual education plans, equal access, and other factors related to vocational programming. *Fall*

**VE 486 PRINCIPLES AND PHILOSOPHIES OF VOCATIONAL EDUCATION**
The basic concepts, development, and practice of occupational education and the educational theories underlying it. Available only through the New and Returning Vocational Teacher Certification program. See the TDS Department Coordinator. *Fall*

**VE 590 ADVANCED SPECIAL TOPICS**
1-6 credits
Study of selected topics in vocational education based on the needs of the student. Examples are: career education, administration and supervision, adult education, grant writing, creating and using information systems, evaluation, research, special needs, contemporary issues, and cooperative education programs.

**VE 598 INDEPENDENT STUDY**
1-6 credits
Intensive study of an area of industrial/vocational education through individual reading, writing, laboratory work, or field investigation. A written report is required. Prerequisite: permission of instructor. May be repeated to a total of 6 credits.

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**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 in 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 upon 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 required of 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; 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, minor, etc., 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 18 credits (19 for Music majors). 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>
</tr>
</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 Registrar’s Office 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.

### UNDERGRADUATE

<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>
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<tr>
<td>3</td>
<td>Half-time</td>
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<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 Studies. Graduate student enrollment status is described in the “Graduate Programs” 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.

<table>
<thead>
<tr>
<th>Class Status</th>
<th>Credits Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0 – 29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30 – 59</td>
</tr>
<tr>
<td>Junior</td>
<td>60 – 89</td>
</tr>
<tr>
<td>Senior</td>
<td>90 to completion</td>
</tr>
</tbody>
</table>

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 which 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 which 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. 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:

- 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. 185);
- 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 which provide an opportunity for them to assess their capacity to do college-level work for credit or which 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 Registrar’s office. 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, quarter terms, etc.) 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.), stu-
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)
- Portfolio Development (KSC 200)
- Cooperative Occupational Internship (VE 209)
- Sport and Leisure Activities (PE 150-199)

Practicum in Human Services (HE 470)
Practicum: Food Service (HE 473)
Practicum: Dietetics (HE 474)
Vocational Teaching Internship (VE 401)

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 requires 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 requires approval of the appropriate divisional dean.

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, non-credit 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 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 non-academic 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 Admissions 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 pleasures 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 asks 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 through 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 dealing with 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 websites 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;
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 (taking 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, selling, or 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. Two students in two different sections or classes sharing research for a paper or in-class presentation (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 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 member permits, recommends, or even requires collaborative effort; however, students should be careful to follow whatever guidelines are set up by faculty 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, 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, 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 . . . .

1. Have I read any materials which I am using in this paper but have not cited?
2. Am I deliberately referring to or recalling any particular source of information as I write this paper?
3. 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; however, if the answer to any of these questions if “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 member for whom the paper is being written. Indeed, any question about any form of academic dishonesty should be addressed to the appropriate faculty member. It is always “better safe than sorry.”
Academic honesty for international students
Academic honesty has 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 who are dealing with issues of academic honesty with students from other countries.

Addition: However, all Keene State students will be held accountable for adhering to the Academic Honesty Policy.

Handling of incidents of academic dishonesty
Although all cases of academic dishonesty are serious, some are more serious than others. Those which are less serious will be handled by the faculty member, who will decide on the appropriate sanction – from redoing the assignment to failure for the assignment to an F for the course. The initial sanction will be imposed by the faculty member, but all violations will be reported to the appropriate Dean, who will schedule a conference with the student to discuss the incident and the student’s right to appeal. The Dean 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 three 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 which 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 determines an offense is serious in nature or is a second offense, he/she may consider it grounds for dismissal.

Appeals of charges of academic dishonesty
A student charged with academic dishonesty will be informed of the charge, the reasons for the charge, and the sanction to be imposed by the faculty member. The student will receive a copy of a form detailing the charge and the sanction. The form will be submitted, along with appropriate documentation, to the Divisional Dean’s office, and the Dean will see that the report is filed.

The student has the right to appeal. The appeals procedure is as follows:

1. After the student has been charged and is not satisfied by a conference with the instructor, the student may appeal the instructor’s allegation or the sanction. The appeal must be put in writing to the appropriate Divisional Dean, explaining in detail why the student thinks the charge or the sanction is not justified and must be filed within five calendar days after the instructor renders his/her decision. The Dean will consult with the faculty member about the appropriateness of both the charge and the sanction.

The Dean may uphold the faculty member’s action, or the Dean may overturn the allegation or the sanction. The Dean will also consult the central file in the VPAA Office to determine if there has been a prior offense. If there is a prior offense or if the Dean determines the offense to be of a more serious nature, the Dean may institute dismissal procedures through the Office of the Academic Vice President. In all cases and at all levels, a written report of the rationale must be provided within two weeks of each decision.

All dismissal cases will be reviewed by an Academic Appeals Board, made up of four faculty and three students and chaired by one of the faculty. This board is separate from the Judicial Board, which hears cases regarding student behavior. An Academic Appeals Board will recommend to the Vice President for Academic Affairs, whereas the Judicial Board recommends to the Vice President of Student Affairs. The College Senate will establish procedures for electing the faculty, and the Student Government will oversee election of student members of the Academic Appeals Board.

2. If either student or the faculty member is not satisfied with the Divisional Dean’s disposition of the case, an appeal can be filed in writing to the VPAA. The appeal must be filed within five calendar days after the Divisional Dean renders his/her decision.

3. The Vice President will refer the appeal to an Academic Appeals Board for recommendation. All dismissal cases will automatically be heard by an Academic Appeals Board convened by the VPAA.

4. The decision rendered by the VPAA in all cases of appeal will be final.

Conclusion
As indicated at the outset, the principle of academic integrity is so central to an academic institution that academic dishonesty is one of the most serious offenses in any college, and it is one that Keene State College will not tolerate. Ignorance about what constitutes academic dishonesty or about the policy of the College will not be
considered an acceptable defense, and to that end, efforts will be made to inform students of Keene State’s policy—through discussions at Orientation and in appropriate courses (like Essay Writing and through publication in appropriate places (the catalog and student handbook for instance). Any questions about the policy or the procedures may be addressed to the Divisional Deans. Questions about specific cases should be addressed to the appropriate faculty.

**College Withdrawal**

Students wishing to withdraw from the College must secure a withdrawal form from the Associate Dean 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 Dean 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 grade point average upon completion of his or her degree program.

**Honors in specific disciplines** are awarded to those who complete the honors requirements of their respec-
tive academic discipline (3.20 minimum), and who have a cumulative G.P.A. of 3.20 or higher.

A student with a cumulative grade point average of 3.9 or higher will earn summa cum laude honors. A student with a cumulative grade point average of 3.70 to 3.89 will earn magna cum laude honors. A student with a cumulative grade point average of 3.50 to 3.69 will earn cum laude honors.

Transcript (Academic Record)
The Registrar’s Office 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 Registrar’s Office 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 which, under current policy and procedure, is the student’s responsibility, must initiate that 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

Registrar’s Office
Elliot Hall

Associate Dean for Student Affairs,
Student Development
Elliot Hall

The following offices maintain education records for some of the students enrolled at the College:

The Elliot Center
Elliot Hall

Office of Intercollegiate Athletics
Spaulding Gymnasium

Arts and Humanities
Parker Hall

Professional Studies
Rhodes Hall

Sciences
Science Center

Health Services
Elliot Hall

Residential Life Office
29 Butler Court

Student Financial Management 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

The Elliot Center
The Elliot Center offers coordinated support for students in the areas of academic and career development. Combining the areas of academic advising, career services, the Aspire program and the Registrar’s office, the Center is a dynamic hub. A teaching/learning collaborative that involves students, faculty and staff, the Elliot Center with its career library is a resource for advising, instruction, use of educational technologies, research, skill building, and exploration dedicated to assisting students in achieving their potential.

Located on the first floor of Elliot Hall, the Elliot Center welcomes all students – prospective, current, and alumni.

Academic and Career Advising
The major objective of the Elliot Center’s academic and career advising program is to assist student growth in the following areas: self-awareness and intellectual potential, the ability to identify realistic academic and career goals and a program of study to achieve them, and the awareness of life as extending beyond the College experience.

The academic and career advisor can assist students in: identifying and assessing options and the consequences of decisions, defining and developing realistic goals, planning an academic program, monitoring progress toward the goal, and referring to appropriate support services.

Ultimately, responsibility for making decisions about life and educational plans rests with the student. A student is expected to gather relevant information; clarify personal values and goals; become knowledgeable of policies, procedures, and requirements; and utilize institutional and community support services.

Orientation Advising. New first-year students will have the assistance of faculty, student and 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 their majors, and assist students with the advising/course selection process.

Major Advising. Department chairs or their designees are responsible for assigning advisors. First year students will be informed about the department’s advising plan at the department’s information session held within the first two weeks of the semester. Once an advisor is assigned, at any time the student wishes to change advisors, she or he may go to the department chair and request a change in advisor. The chair will make every attempt to accommodate the request. While the student is still responsible for meeting the requirements of his/her academic program, the faculty advisor is available to assist with program requirements, long-range planning, career opportunities, and professional recommendations. 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.

Aspire
The Aspire program is a federally-funded program designed to provide academic and personal 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. All students are eligible for tutoring.

However, many students on campus are eligible for additional services. Eligibility is defined as those students who are low-income, the first in their families to go to college, or those with a physical and/or learning disability. Through the Aspire program, students meet individually with a member of the professional staff to improve study skills and learning techniques. Additionally, students are encouraged to organize their
time, set goals, establish priorities, and to work to their full potential. Workshops in basic study skills are offered throughout the year. The Aspire Program has its own Macintosh computer lab for the exclusive use of program participants.

The Adult Learner Program (ALP) in the Aspire Office offers sections of courses specifically for adult learners, along with skill development, academic advising, career exploration, and social activities for adults.

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 the Elliot Center. A professional-quality resume is required to apply. Resume assistance, through workshops and individual critiques, is available to all students.

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 Registrar’s Office 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).

Adult Learner Services

A significant number of students at Keene State College are adult learners, 25 years of age and older. They include both matriculated (formally admitted) and Continuing Education students, attending during the day and evening. The Office of Adult Learner Services program is located in the Elliot Center in Elliot Hall. It is the place to start for prospective students who want to know their options. The staff members advise students on college requirements, make referrals to other offices, do courtesy evaluations of previous college credits, and represent the adult learner in the College community. The coordinator of Adult Learner Services also coordinates the Assessment of Prior Learning, which enables a student to earn credit for life experience.

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/or credits by portfolio assessment.

To apply for credit by either of these methods, the following are required:

1. 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. The student must score at or above the 50th percentile in order to be eligible for credit.

Academic disciplines may offer opportunities for students to demonstrate competence through approved standardized examinations or faculty-designed assessment instruments. Such examinations must be approved by the faculty of the discipline and the appropriate divisional dean. Disciplines which offer such examinations will provide students with a written policy regarding the administration of the assessment instruments, the standards of expected performance, the procedure for evaluation and the process for awarding credit.

**Credits by Portfolio Assessment.** It is possible to seek credit for learning derived from work and life experience through documentation of acquired knowledge and/or skills.

The assessment team is composed of Keene State College faculty and professionals credentialed in the fields in which the student is seeking credit. This team reviews the completed portfolio and recommends the number of credits to be awarded in the assessed areas. Further information about these opportunities may be obtained in the Elliot Center. Fees are charged on a per credit basis.

**The Math Center**

The Math Center provides a variety of services to increase mathematical understanding and to assess knowledge of basic math skills. The Math Center offers the following services free of charge to KSC students: peer tutoring on a walk-in basis for all 100-level math courses as well as for quantitative intensive courses, peer course assistants for some 100-level courses, and diagnostic and proficiency testing.

Located on the first floor of the mathematics department building at 88 Winchester St., the Center is staffed by peer tutors who can provide assistance in reading and understanding math textbooks, understanding abstract concepts, solving difficult word problems, reviewing and developing basic math skills, and gaining confidence in quantitative abilities. For more information, call (603) 358-2523.

**The Writing Center**

The Writing Center is designed to assist 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 and, 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 Writing 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 Writing Center, located in Elliot Hall, welcomes students 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 writing, documentation, and skills work.
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 160 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 the cultural diversity within the United States, to search directly for graduate and job opportunities, and to take courses not offered at KSC.

Direct International Exchange. There are 10 direct exchange programs established with colleges and universities in Ecuador, England, France, Ireland, Québec, 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. The cost of student attendance in each of the programs is based on the in-state or out-of-state rate of tuition and fees.

International Consortial Programs. Keene State has membership in a number of international consortial programs, including the University of Wollongong in Australia; the Cross-Cultural Center in Seville, Spain; and the University of Salzburg in Austria. Keene State also belongs to the Council on International Educational Exchange and the College Consortium for International Studies, which together offer more than 60 study abroad programs throughout the world. Especially popular consortial destinations are Argentina, China, Costa Rica, Israel, Italy, Scotland, Spain, and the Dominican Republic. The cost of student attendance in the consortial programs is determined by each program and is not based on the in-state or out-of-state rate of tuition and fees.

The minimum grade point average required to participate in the National Student Exchange is 2.5. The academic requirements for all international direct exchange and consortial programs is also 2.5, with a few exceptions (Oxford Brookes, Wollongong, and all Irish programs require a 2.9). Financial aid recipients can apply their aid toward all national and international exchange and consortial programs.

Students interested in an international experience on campus can request an international roommate and/or join the Africa Club or International Friends Club, a student organization whose main objective is to welcome incoming exchange students, and introduce them to the campus and community.

Students seeking credit for national and international study programs must consult with the National and International Exchange Center and appropriate major/minor faculty before departure to arrange for program approval and transfer of credit.

A non-refundable deposit is required for all study-away programs. Tuition and fee reimbursements follow policy outlined elsewhere in this catalog.

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 in 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.
Arboretum & 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 which 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, and 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 Mrs. Robb Sagendorph of Dublin in memory of her mother. The gallery maintains a year-round schedule of shows and 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 in gallery management is offered to Keene State students, and exhibit space is provided for faculty and student shows. The new gallery facility, with two skylit exhibit halls, climate control, and a sophisticated security system, is located on Wyman Way.

BodyWorks, the campus fitness center, serves to help 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 located in the new recreation center in the Spaulding Gymnasium. It offers over 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 provides access to a wide range of printed materials for anyone who wishes to either study or teach the Holocaust. The Center contains more than 3,700 books, several periodicals and annuals, thousands of articles, approximately 220 videos, and numerous curricula. Although materials do not circulate, they are available for use by both the College community and the general public. Acquisitions of materials is funded largely through private contributions. The Center, which is housed on the Mason Library’s second level, will be temporarily relocated to the ground floor of Elliot Hall when library renovations resume.

The Center for Media and Instructional Technology (CMIT) supports faculty in the use of a wide range of media and technology. This includes classroom technology, course management systems, assistance with procuring and licensing academic software, and media production and delivery. The Center also offers a variety of training opportunities relating to the use of technology for faculty groups and individuals. CMIT is located on the second floor of Elliot Hall.

The Child Development Center (CDC) offers undergraduate and graduate students supervised experience in the direct education and care of infants, toddlers, preschoolers, and kindergarten-aged children. Students work in CDC classrooms while enrolled in courses in teacher education, psychology, and human services. Our goal is to assist students in the early childhood or elementary education academic programs to build skills in curriculum planning and implementation, observation of child development, and child guidance. Many students also work in CDC as volunteers seeking practical experience, and as work-study students. The Center is staffed with Early Childhood professionals who guide the learning of both the college students and the children throughout the day.

The Center models “best practice” based on the Developmentally Appropriate Practices as defined by the National Association for the Education for Young Children (NAEYC). This model focuses on the needs of the whole child—physical, social, emotional, cognitive, and creative. The CDC’s curriculum follows an integrated model, where children learn as they observe, play, and participate in a wide range of child-centered activities. Curriculum is designed to introduce multiple perspectives; the inclusion of special needs children is ongoing. Family communication and involvement is integral to the program.

The Center is open during both academic semesters and for part of the first summer session. Through pre-arrangement, observation opportunities are available for students, faculty, staff, and parents. The CDC program enrolls children of the greater Keene community, including children of Keene State staff and students, with an eye towards creating diverse classrooms.

The Computer Facilities are enhanced by a campus network that is connected to the Internet. Round-the-clock access to e-mail, the Internet, and the web from residence hall rooms is a direct-wired connection, not via a modem. Many disciplines provide computer clusters for students, and public clusters are located in the Mason Library and Rhodes Hall.

The Curriculum Materials Library (CML) makes available a wide range of curriculum and professional development materials for students in education methods 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 in Parker Hall contains a large collection of 16 mm prints, laserdiscs, and videotapes, equipment facilities for film and digital non-linear video production, screening facilities for 8mm, 16mm, and 35mm in Drenan Auditorium, plus facilities for cleaning and repairing film, and an extensive library of books and periodicals related to film. It houses the KSC Film Society which runs a year-round, weekly film series in Putnam Arts Lecture Hall, equipped with 70 mm projection capacity and Dolby Digital sound.

The Language Learning Center, Quadsise, 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
Continuing Education to meet the occupational safety and health needs of New England’s business and industrial communities. The Institute is located at the Keene State College Safety Center in Manchester, N.H., and serves Maine, New Hampshire, Vermont, Massachusetts, Connecticut, and Rhode Island.

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 completed a comprehensive case study that is presented to the business owner at the end of the semester.

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 26 district and regional awards, including the 1997 national championship. Ten have become national finalists since 1988, an institutional record of distinction exceeding all other SBI colleges and universities.

The Wheelock School is a state-approved, neighborhood elementary school operated collaboratively by Keene State College. It is an outstanding example of cooperation between Keene State College and the Keene School District, sustained since the College was founded in 1909. It provides an educational program for 185 students enrolled in kindergarten through grade 5. The school actively participates in such programs as the social curriculum, 4 Blocks, and inclusion. Wheelock serves as a laboratory for Keene State College students in the Professional Studies Division, including education, teacher education, special education, physical education, early childhood education, and school counseling. In 2003, the operation of Wheelock School will be transferred to the Keene School District.
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 Management for more information.

Applicants are required to pay a non-refundable 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 non-matriculated.

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 appointment 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 – 2 are required, 1 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, New Jersey 08541, or P.O. Box 1035, Berkeley, California 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 minorin 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 and, conversely, non-admission 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 (Drafting & Design Technology, Industrial Electronics Technology, Manufacturing Technology, and General 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 non-matriculated, 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 Postsecondary 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 non-accredited 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.

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 US International Communications Agency, US 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-

International Students

Keene State College welcomes well-qualified students from outside the United States. Students from more than 25 countries are currently enrolled, helping enrich the educational opportunities of all.
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 non-credit 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, non-matriculated 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 non-credit 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, fundamental through advanced mathematics, social issues, science, performing arts, biology, and PSAT preparation. Electives are offered in a variety of interest areas, including the arts, social sciences, and physical activities, and each student performs community service.

Upward Bound also provides unique opportunities for Keene State College students, who may apply to be on the staff. The program employs work-study 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 ex-
pands 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 2002-03 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, Daniel Webster College, Franklin Pierce College, New England College, New Hampshire College, Notre Dame College, Plymouth State College, Rivier College, College for Lifelong Learning, 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.
THE STUDENT FINANCIAL SERVICES area has been redesigned to let students complete more functions with fewer stops. The student account (Bursar) area and Financial Aid area have been consolidated so that staff may perform many services during a single transaction, as these two functions are often interrelated. Students may now make payments, complete financial aid requests and receive information about financial aid and billing statements from both the Bursar and Financial Aid windows. This redesign is intended to reduce the number of stops and length of time students need to spend completing these important functions.

Tuition and Fees

Fees

Students attending Keene State College can expect to be billed for some or all of the following during the time they are enrolled:

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.

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, re-admitted, graduate, and certificate students. This fee covers administrative and technical costs for new students.

Room. 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 and Tisdale 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 which may result. The unused portion of the deposit will be refunded only after the student moves out of the residence halls.

Late Payment. 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 before the published deadline.

Late Withdrawal. Charged to students who withdraw from courses after the late add/withdrawal period.

Applied Music Fee. Charged to students enrolled in specific classes which 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 which, 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.

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 which 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 non-payment 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 non-resident 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 which 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 that is available from Student Financial Services.

In order to assist with financial planning, total expenses (tuition/room/board/mandatory fees) for full-time students for the 2001-2002 academic year was approximately $10,800 for New Hampshire residents and $16,300 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 course load is eligible for refunds according to the following schedule:

<table>
<thead>
<tr>
<th>Tuition</th>
<th>75% within 7 calendar days from the date classes begin.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50% in 8-30 calendar days after the date classes begin.</td>
</tr>
<tr>
<td></td>
<td>No refund beyond 30 days after the date classes begin.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room</th>
<th>75% within 7 calendar days from the date classes begin.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50% in 8-30 calendar days after the date classes begin.</td>
</tr>
<tr>
<td></td>
<td>No refund beyond 30 days after the date classes begin.</td>
</tr>
</tbody>
</table>

| Board   | 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. |

| Fees    | No refund. |

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>Program fee</th>
<th>75% within 7 calendar days from the date classes begin on site.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50% in 8-30 calendar days after the date classes begin on site.</td>
</tr>
<tr>
<td></td>
<td>No refund beyond 30 days after the date classes begin on site. A non-refundable 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, including any late penalties assessed due to failure to pay. Students also understand that collection costs will be added 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, may not receive grade reports, transcripts, placement papers, diplomas, or other services from the College.

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. Information about payment plans which allow for payment of KSC charges during the school year is available at Student Financial Services if financial aid awards will not cover all of a student's charges. 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>1000+</td>
<td>3.0+</td>
<td>60</td>
</tr>
<tr>
<td>KSC Enrichment</td>
<td>$1500</td>
<td>950+</td>
<td>2.75+</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 Supplemental Educational Opportunity Grant Program is a federally-funded program which 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 which 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 our office during these months.

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 non-subsidized 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 non-eligible 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 $500-$1000 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 being offered 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 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 with federal financial aid programs may contact this person at 1-877-557-2575 or via the Internet at http://sfahelp.ed.gov.
Student Life

Student Governance

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, non-traditional students, and the Student Body president and vice president as non-voting, 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 biweekly 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 the Student Government Executive Board.

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 nearly 2,100 residential students. Ten full-time professionals and more than 60 highly trained 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 Associate Dean of Student Affairs 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 the family housing apartments are contained in the Family Housing Handbook.

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/offcampus.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 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 and Pondside II 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, and Pondside II 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 a two-day Orientation program on campus in June to become familiar with the curriculum, services, and facilities of the College. Students meet with academic advisers and register for their fall courses at that time. Transfer students are invited to come to campus during the summer to meet with advisers and register for courses.

Services for Students with Disabilities
Services for students with disabilities are coordinated through the Office of Disability Services, 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. Eligibility for accommodations is dependent on appropriate documentation including information about the functional limitations of the disability.

Disability: Technical Standards for Academic Programs
While the Americans with Disabilities Act prohibits discrimination against individuals with disabilities who are “otherwise qualified,” academic programs may set specific academic and technical standards. Institutions may not exclude “otherwise qualified” applicants merely because of a disability if the institution can reasonably modify its program or facilities to accommodate the applicant. However, an institution need not provide accommodations or modify its program of study or facilities such that (a) would “fundamentally alter” and/or (b) place an “undue burden on” the educational program or academic requirements and technical standards which are essential to the program of study. Please refer to the academic program information in the program description section of the appropriate major for information regarding the technical requirements of individual programs.

Health Services
Health Services, staffed by nurse practitioners, registered nurses, a health educator, and a physician, attends to the health needs of the campus community. The Service offers a full range of out-patient care, including medical assessment and treatment, lab work, counseling, referral, allergy shots, follow-up care, and health education. The Health Educator will assist in program planning and presentations on campus as well as utilizing the professional, video, and printing resources within Health Services in assisting students with class preparation and research. Liaison with and referral to area medical facilities is provided when circumstances are beyond the scope of the Health Services facilities.

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 issues such 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.

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.

Recreational Sports
With the opening of the new Recreation Center, KSC students have a state-of-the-art recreation facility to meet all their fitness, sports, and social needs. The new Recreation Center offers three courts in the recreation gymnasium for basketball, volleyball, indoor soccer,
etc.; the two-level BodyWorks fitness center with the weight training area on the ground floor and the cardiovascular fitness are on the third level; a three-lane walking/jogging track elevated above the recreation gymnasiunm; two aerobic fitness studios; and a multipurpose room. The intramural sports, aerobics fitness classes, club sports, and informal recreation programs are held in the new Recreation Center. The swimming pool and racquetball court are available for students, faculty, and staff to use in the existing Spaulding Gymnasium as well as the newly renovated general locker rooms on the ground floor and the pool locker rooms. The new wellness seminar room and relocated gymnastics/multi-purpose room are housed in the Spaulding Gymnasium. There are also four outdoor, lighted tennis courts, a sand volleyball court, and numerous grass recreation fields available for use by KSC faculty, staff, and students.

The Recreational Sports Handbook, which outlines policies for facility use, regulations regarding memberships and policies for participation in the program, is available in the Recreational Sports offices, located on the first floor of the new Recreation Center. For additional information on Recreational Sports programs and the new Recreation Center, contact the Recreational Sports office at 603-358-2814.

Intercollegiate Athletics

Intercollegiate athletics provide opportunities for students with exceptional athletic ability to represent the College in National Collegiate Athletic Association 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

A privately supported Protestant campus minister and Catholic campus minister 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 also an active Hillel organization on campus, as well as a synagogue in Keene.

Veterans’ Services

New students are urged to visit or contact the Office of the Registrar 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 Office of the Registrar.

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 which 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 coordi-
nates Alternative Spring Break trips around the country with Habitat for Humanity building projects. The College has established a Habitat for Humanity Campus Chapter for students, faculty, and staff volunteering in building and rehabilitating homes in the area.

The Office of Community Services sponsors campus blood drives, national service days, and weekend service projects with local agencies, including Keene Community Kitchen and Homeless Shelter, Big Brothers/Big Sisters, Pisgah State Forest, Cedarcrest Children’s Home.

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, 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
Habitat for Humanity - Campus Chapter
Student Volunteer Organization

GREEKS
Fraternities
Alpha Pi Tau
Phi Mu Delta
Sigma Lambda Chi
Tau Kappa Epsilon
Sororities
Delta Phi Epsilon
Eta Gamma Chi
Kappa Gamma
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)

RECREATIONAL CLUBS
Dance Team
Environmental Outing Club
Golf Club
Ski Club
Snowboarding Club

RESIDENTIAL LIFE
Residence Hall Association

SPECIAL INTEREST CLUBS
Association for Workplace Safety
Amnesty International
Campus Crusade for Christ
Campus Ecology
Campus Ministry
Civil Liberties Union - Campus Chapter
Class Offices
Feminist Collective
Film Society
Hillel
International Friends
KSC Pride
Newman Student Organization
Pagan Fellowship
Social Activities Council
Student Dietetic Association
Student Government
Student Performing Arts Project

STUDENT PUBLICATIONS AND MEDIA
Independent Film Foundation
The Kronicle (yearbook)
The Equinox (newspaper)
KSC-TV
Literary Journal
WKNH-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

- AEROBICS PROGRAM
- Cardio-Combo
- Cardio Kick Boxing
- Hydrorobics
- Muscle Blast
- Step Aerobics
- Step/ Dance
- Yogaerobics
- Yoga

- CLUB SPORTS
- Men's/ Women's Rugby
- Volleyball

- INTRAMURAL SPORTS
- Basketball
- Flag Football
- Racquetball
- Co-Rec Soccer
- Indoor Soccer
- Softball
- Tennis
- Three on Three Basketball
- Volleyball, Men's/ Women's/ Co-Rec/ Sand
- Wallyball
- Wiffleball

New clubs form each year. Not all clubs listed are active every year.
Appendix

Board of Trustees

Ralph E. Brickett
Bow, 1995-2001

Michelle L. Chicoine
Bedford, 1999-2003

John D. Crosier
Concord, 1998-2002

Ellen G. Croteau
KSC, Student Trustee, 2000-02

Edward D. Densmore
Franconia, 1998-2002

John H. Lawson
Amesbury, Mass., 2000-04

Andrew E. Leitz
Rye, 2001-04

John H. Lynch
Manchester, Chair, 2000-03

Robert L. Mallat Jr.
Keene, Vice Chair, 1995-2003

Lorraine Stuart Merrill
Stratham, Secretary, 1997-2005

Terry L. Morton
Rye, 1987-1999

Joseph B. Murdoch
Durham, 1997-2003

Thomas Paton III
UNH, Student Trustee, 2001-02

Walter R. Peterson
Peterborough, 1996-2004

Eugene A. Savage
Concord, 1999-2003

Merle W. Schotanus
Grantham, 1998-2005

Roberta E.C. Tenney
Concord, 1994-2002

Edwinna C. Vanderzanden
Rochester, 2001-05

Ex Officio

Nicholas C. Donohue
Commissioner: State Department of Education

Joan R. Leitzel
President: University of New Hampshire

Thomas M. Rocco
President: College for Lifelong Learning

Stephen J. Reno
Chancellor: University System of New Hampshire

The Honorable Jeanne Shaheen
Governor: State of New Hampshire

Stephen H. Taylor
Commissioner: State Department of Agriculture

Donald P. Wharton
President: Plymouth State College

Stanley J. Yarosewick
President: Keene State College
Administrators

PRESIDENT
Stanley J. Yarosewick

VICE PRESIDENTS
Academic Affairs:
Vacant
Finance and Planning:
Jay V. Kahn
Student Affairs:
Corinne P. Kowpak

DEANS
Arts and Humanities:
Rita M. Miller (interim)
Professional and Graduate Studies:
David S. Hill
Sciences:
Gordon J. Leversee
Associate Vice President for Academic Affairs:
Ann M. Rancourt
Associate Vice President for Finance:
Karen P. House
Associate Dean for Student Affairs, Student Development:
Andrew P. Robinson
Associate Dean for Student Affairs, Student Life:
Anne Miller

DIRECTORS
Academic and Career Advising Services:
Judith Perry
Administrative Information Services:
Laura Serachick (interim)
Admissions:
Margaret Richmond
Advancement:
Judy Kalich
Alumni and Parent Relations:
Michael Maher
Athletics and Recreational Sports:
John C. Ratliff
Bookstore Manager:
Gail Bys
Bursar:
Teresa Donnelly-Major
Campus Purchasing and Contract Services:
James B. Draper III
Campus Safety:
Amanda Warman
Cohen Center for Holocaust Studies:
C. Paul Vincent
Center for Media and Instructional Technology:
Karen R. Swisher
Child Development Center:
Dorothy Cleveland
Client Services:
Glenn Powers (interim)
College Relations:
Michael Matros
Continuing Education & Extended Studies:
Robert Baker
Counseling:
Vacant
Elliot Center and Grants Office:
Vacant
Health Services:
Myra Skibb
Human Resources:
Gloria Lodge
Institutional Research:
Sandra Price
Mason Library:
Irene Herold
Math Center:
Eileen Phillips
National and International Exchange:
Ellen B. Coggeshall
Network and Communication Services:
Indira Singh
Physical Plant:
Frank Mazzola
Redfern Arts Center:
William Menezes
Registrar:
Susan M. Sielke
Small Business Development Center:
Gary N. Chabot
Student Financial Services:
Patricia Blodgett
Teacher Education and Graduate Studies Office:
Merle S. Larracey
Thorne-Sagendorph Art Gallery:
Maureen Ahern
TRIO Programs:
Alan Glotzer
Wheelock School Principal:
Gwen Mitchell (interim)
Writing Center:
Phyllis Benay
Young Student Center:
Paul Strifflinio

COORDINATORS
Academic Support:
Pat Halloran
Adult Learner Services:
Judith Perry
Budget:
John D. Halter
Child and Family, CDC:
Vanessa Stern
Community Services:
Donald Hayes
Early College Awareness Program:
Hannah Hurlburt
Educational Programs, Aspire:
Laura Mielke
Educational Programs, Continuing Education:
Steven C. Kessler
Educational Programs, National/International Education:
Daniel Denoncourt
Educational Programs, Upward Bound:
Elizabeth Zinn
Recreational Athletics:
Patrick Hearn
Recycling:
Mary Jensen
Disability Services:
Jane A. Warner
Sports Information:
Stuart Kaufman
Travelli-Ayling Scholarships Program:
R. Michael Haines
Faculty by Disciplines and Divisions

Library

Wallace E. Mason Library
Anne Ames
Margaret Barrett
Judith M. Hildebrandt
Robert Madden
Lois Merry
Patrick O’Brien
Peggie Partello

Associate Vice President for Academic Affairs

WOMEN’S STUDIES MINOR
Corinn Columpar

Arts & Humanities Division

The Arts and Humanities Division includes courses in art (graphic design, studio art), communication, English, film studies, French, German, history, journalism, music, philosophy, Spanish, and theatre and dance.

ART/GRAPHIC DESIGN

Redfern Arts Center
Butterfield Hall
Samuel Azzaro
Rosemarie Bernardi
Henry A. Freedman
Marsha E. Hewitt
Timothy J. Mazurek
John E. Roberts
Peter Roos

COMMUNICATION

Elliot Hall
Joan Donnelly (PAT)
Diane M. Monahan
Rita M. Miller
Tara N. Stuart

ENGLISH

Parker Hall
Thomas M. Antrim
Deborah Robin Dizard
William E. Doreski
Nona Fienberg
Janet M. Grayson
R. Michael Haines (PAT)
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
Lawrence M. Benaquist
Corinn Columpar
Peter J. Condon (PAT)
Thomas Cook

HISTORY

Morrison Hall
Matthew H. Crocker
Paul E. Cullity (FIR)
Carl R. Granquist
Gregory T. Knouff
Margaret A. Orelup
David W. Price
David Stowell
C. Paul Vincent
Andrew Wilson

JOURNALISM

Elliot Hall
Craig Brandon (PAT)
Rose M. Kundanis
David G. Payson Jr.
Mark C. Timney

MUSIC

Redfern Arts Center
Donald Baldini (AIR)
Joseph E. Darby
Maura J. Glennon
I. Gladys Johnson
Carroll J. Lehman
José Manuel Lezcano
George G. Loring (AIR)
Douglas A. Nelson
Craig S. Sylverv

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
The Sciences Division 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. Cangialosi
Patrick M. Eggleston
Renate L. Gebauer
Scott J. Strong
Susan L. Whittemore
Benjamin N. Wise
Theodore S. Zerucha
Michelle L. Zhra

CHEMISTRY
Science Center
Richard Blatchly
Sally M. Jean
Stephen J. Stepenuck Jr.

COMPUTER SCIENCE
Science Center
Suzanne M. Castriotta
Michael J. Hanrahan
Gerald P. Joyce II
Ronald A. Tourgee

ECONOMICS
Rhodes Hall
Patrick Dolenc
Marie C. Duggan
Thomas E. Duston
Robert L. Sherry

EDUCATION/EARLY CHILDHOOD DEVELOPMENT
Rhodes Hall/Joslin House
Kathleen M. Ahern
Thomas Bassarear
Dorothy A. Bauer
Stephen Bigaj
Deborah Black
John Couture
Leonard E. Fleischer
Raymond A. Jobin
Judith Lister
Glenna J. Mize
Ellen Nuffer
Joseph F. Rousseau
Susan Theberge
David E. White

EDUCATION/EARLY CHILDHOOD DEVELOPMENT
Rhodes Hall/Joslin House
Kathleen M. Ahern
Thomas Bassarear
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John Couture
Leonard E. Fleischer
Raymond A. Jobin
Judith Lister
Glenna J. Mize
Ellen Nuffer
Joseph F. Rousseau
Susan Theberge
David E. White

HEALTH SCIENCE
Joslin House
Rebecca D. Brown
Richard P. DeSantis
Sandra DiNatale
Karen L. Saucier
Margaret A. Smith
Pamela Smith

GEOGRAPHY
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
Kwangseek Choe
Susan Herman
Stephen C. King
John Pappalardo
Neal R. Fruchansky
Robert Simoneau

MATHEMATICS
88 Winchester St.
Michael Cullinane
Vincent Ferlini
Beverly J. Ferrucci
Richard Jardine
Ockle Johnson
Joseph C. Witkowski

PHYSICS
Science Center
J. Russell Harkay
Frederick J. Wolf

POLITICAL SCIENCE/SOCIAL SCIENCE
Rhodes Hall
Roland L. Higgins
Joan Roelofs
Charles F. Weed Jr.

PSYCHOLOGY
Rhodes Hall
Linda Baker
Gary Bonitatibus
Martin W. Brown
Stephen J. Clark
Sneha Menees
Neil M. Montgomery
Anthony Sciola
Homer E. Stavel Jr.
Donna M. Viveiros
Lawrence A. Welkowitz

SOCIOLOGY
Rhodes Hall
Rosemary Gianno
M. Therese Seibert
Peter R. Stevenson
Eleanor M. Vander Haegen
Margaret M. Walsh

PHYSICAL EDUCATION
Spaulding Gymnasium
Charles W. Beach
Sherry L. Bovinet
Ronald B. Butcher
Beverly R. King
Linda A. Millard
Donna M. Smyth
Jeffery M. Timmer

SPECIAL EDUCATION
Rhodes Hall
Evie Gleckel
Nancy S. Lory

TECHNOLOGY, DESIGN AND SAFETY
Butterfield Hall
David S. Buck
Vicki Farer
Richard L. Foley
Larry H. McDonald
Delmar R. Ogg
Terry A. Schmidt
Charles A. Sheaff
Peter L. Temple
Melinda D. Treadwell

WHEELOCK SCHOOL
Christine Archer
Ann M. Ayotte
Judith Blood
Shelley W. Craiglow
Linda S. Field
William D. Gillard
Kathleen Halverson
Raymond A. Jobin
Beverly R. King
Dawn Loughery-Symonds
Robert J. Lupien
Lisa Mango
Anne Meddaugh
Deborah Sawyer
Lisa Seelen
Sheila M. Vara
Principal Administrators

Yarosewick, 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 2002. Year of appointment in parentheses)

Ahern, Kathleen M., Instructor, ESEC; B.S., University of Massachusetts-Amherst; M.Ed., St. Joseph’s College (2000)
Allen, Tim, Associate Professor, Geology; B.A., Harvard University; M.S., Ph.D., Dartmouth College (1993)
Alvarez, Kristin, Assistant Professor, Geography; B.A., University of South Florida; M.Ed., Ph.D., University of Southern Mississippi (1999)
Ames, Anne, Assistant Professor, Mason Library; B.A., Franklin Pierce College; M.L.S., Rutgers University (1990)
Antrim, 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)
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, Associate Professor, Psychology; B.A., Brandeis University; M.A., Lesley College; Ph.D., University of Massachusetts, Amherst (1995)
Barrett, Margaret, Associate Professor/Reference Librarian; B.A., Keene State College; M.L.I.S., University of Rhode Island (1970)
Bassarear, Thomas, 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)
Bergman, Kenneth D., Professor, Biology; B.A., University of California, Berkeley; Ph.D., Harvard University (1979)
Bernardi, Rosemarie T., Assistant Professor, Art; B.A., St. Mary’s University; M.F.A., University of Cincinnati (1998)
Bigaj, Stephen, Assistant Professor, ESEC; B.A., St. Norbert College; M.A., University of Minnesota; Ph.D., University of Connecticut (1999)
Bill, Steven, Associate Professor, Geology; B.S., Cleveland State; Ph.D., Case Western Reserve University (1987)
Black, Deborah, Assistant 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)
Blood, Judith, Instructor, Wheelock School; B.S., University of New Hampshire (1999)
Bonitatibus, Gary, Associate 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; M.A., Northern Arizona University; B.S., Ed.D., Brigham Young University (1986)
Buck, David S., Associate Professor, Technology, Design, and Safety; B.Ed., M.O.E., Keene State College; Ed.D., University of Massachusetts, Amherst (1980)
Butcher, Ronald B., Assistant Professor, Physical Education; B.Ed., Plymouth State College; M.S., Indiana University; Ed.D., Highland University (1970)
Cangialosi, Karen R., Associate Professor, Biology; B.A., University of Maryland – Baltimore County; M.S., University of Cincinnati; Ph.D., Miami University (1992)
Castriotto, Suzanne M., Instructor, Computer Science; B.S., Worcester Polytechnic Institute; M.Ed., Lesley College (1999)
Charkey, Barbara, Professor, Management (CPA); B.A., Queens College; M.Ed., M.S., University of Massachusetts, Amherst (1988)
Choe, Kwangseek, Associate Professor, Management; B.A., Myongji University; M.B.A., Indiana University of Pennsylvania; Ph.D., Kent State University (1994)
Clark, Stephen J., Assistant Professor, Psychology; B.S., Ph.D., Brown University (2000)
Columpar, Corinn, Instructor, Film and Women Studies; B.A., Yale University (1999)
Cook, Thomas, Associate Professor, Film Studies; B.A., Purdue University; M.F.A., University of Southern California (1994)
Couture, John R., Associate Professor, Education; B.A., Marist College; M.Ed., Keene State College; Ed.D., University of Massachusetts, Amherst (1990)

Craiglow, Shelley W., Assistant Professor, Wheelock School; B.S., The Pennsylvania State University; M.Ed., Keene State College (1981)

Crocker, Matthew H., Assistant Professor, History; B.A., Macalester College; M.A., Ph.D., University of Massachusetts-Amherst (2000)

Cullinane, Michael, Assistant Professor, Mathematics; B.S., M.S., Ph.D., University of New Hampshire (1999)

Cullity, Paul E., Faculty-in-Residence, History; B.A., Charter Oak College (1998)

Cusack, Christopher D., Assistant 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)

DeSantis, Richard P., Professor, Health Science; B.S.Ed., Clarion State College; M.A., Ph.D., Michigan State University (1970)

DiNatale, Sandra, 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, Associate Professor, Economics; B.S., Ph.D., University of Utah (1991)

Doreski, 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 Sound Resources (2000)

Durnford, Thomas J., Professor, Modern Languages; B.A., University of Connecticut; 3e degré, Université 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., The Ohio State University (1975)


Fazio, Gwendolyn S., Instructor, Computer Science; B.A., University of Maine, Farmington (2000)

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)


Fienberg, Nona, Professor, English; B.A., University of Toronto; M.A., Ph.D., University of California, Berkeley (1991)

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 (1975-79, 1981)

Gebauer, Renate L., Assistant Professor, Biology; B.S., Eberhard-Karls University, Germany; M.S., Christian-Albrechts University, Germany; Ph.D., University of California-Davis (1998)

Gianno, Rosemary, Associate 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, Associate Professor, Special Education; B.S., Lesley College; M.A., Assumption College; Ed.D., Clark University (1993)

Glennon, Maura J., Assistant Professor, Music; B.M., University of Tennessee-Martin; M.M., D.M., Florida State University (1998)

Gosselin, Philip W., Assistant Professor, Psychology; B.A., Columbia College; M.Ed., Ph.D., University of Massachusetts at Amherst (2001)

Granquist, Carl R., Professor, History; B.A., Northwestern University; M.A., Ph.D., University of Wisconsin (1967)

Grayson, Janet M., Professor, English; B.A., M.A., Brooklyn College; Ph.D., Columbia University (1966)

Halverson, Kathleen, Assistant Professor/Library, Wheelock School; B.A., University of Denver; M.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)

Herman, Susan, 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., F.B.A., M.A., University of Michigan; M.F.A., Massachusetts College of Art (1997)

Higgins, Roland L., Professor, History and International Studies; B.A., Oberlin College; M.A.,Ph.D., University of Minnesota (1982)
Hildebrandt, Judith M., Assistant Professor, Mason Library; B.A., Hiram College; M.S.L.S., Simmons College (1990)

Hornbeck, Charles E., Associate Professor, Philosophy; B.A., Phillips University; Ph.D., Emory University (1968)

Jardine, Richard, Assistant Professor, Mathematics; M.A., Pepperdine College; M.Ed., Ph.D., Rensselaer Polytechnic (1999)

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., Assistant Professor, Chemistry; B.A., Cedar Crest College; M.S., Ph.D., University of Connecticut (1999)

Jobin, Raymond A., Assistant Professor, Wheelock School; B.Ed., M.Ed., Keene State College (1966)

Johnsen, I. Gladys, Professor, Music; B.S., Minot State University; Ph.D., University of North Dakota (1993)

Johnson, Ockle, Professor, Mathematics; B.S., U.S. Naval Academy; M.S., American University; Ed.D., University of Massachusetts, Amherst (1986)

Joyce, Gerald P. II, Professor, Computer Science; B.S., Siena College; M.S., Ph.D., University of California, Irvine (1999)

Joyce, Sally L., Associate 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; B.S., University of Connecticut (2000)

Kaladiouk, Anna D., Assistant Professor, Communication; B.A., St. Petersburg State University; Ph.D., University of California-Davis (2001)

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., Assistant Professor, History; B.A., Temple University; Ph.D., Rutgers University (1998)

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)

Lehman, 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, Professor, Early Childhood Education; B.A., M.A., University of New Hampshire; Ed.D., University of Massachusetts, Amherst (1985)

Long, Mark C., Assistant 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)

Mallon, Anne-Marie, Professor, English; B.A., Fordham University; M.A., Ph.D., University of Notre Dame (1985)

Mango, Lisa, Instructor, Wheelock School; A.A., B.S., Keene State College (2001)

Mazurek, Timothy J., Assistant Professor, Art; B.A., University of Maryland at Baltimore; B.A., University of Baltimore; M.A., Towson University (2001)

McDonald, Larry H., Associate Professor, Technology, Design, and Safety; B.A., M.S., Marshall University; Ed.D., University of Massachusetts, Amherst (1989)

Meddaugh, Anne, Instructor, Wheelock School; B.S., M.S., Southern Connecticut State College (1995)

Menees, Susan, Associate Professor, Psychology; B.A., B.S., M.A., Ph.D., University of California, Irvine (1995)

Merry, Lois, Assistant Professor, Mason Library; B.A., Bates College; M.L.S., University of Rhode Island (1987)

Millard, Linda, Associate Professor, Physical Education; B.A., State University of New York, Cortland; M.S., Northern Illinois University; M.S., D.P.E., Springfield College (1988)

Miller, Rita M., Professor, Communication; B.S., University of Nebraska; M.A., Ph.D., University of Massachusetts, Amherst (1989)

Mize, Glenna J., Professor, Education; B.Ed., M.Ed., Keene State College; Ph.D., University of Connecticut (1972)

Monahan, Diane M., Associate Professor, Communication; B.S., Florida State University, Tallahassee; M.A., University of Central Florida; Ph.D., Temple University (2000)

Montgomery, Neil M., Professor, Psychology; B.A., M.S., Ph.D., University of Massachusetts, Amherst (1987)

Mullens, JoBeth, Associate Professor, Geography; B.S., Florida State University, Tallahassee; M.A., University of Central Florida; Ph.D., Temple University (2000)

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)
Nuffer, Ellen, Associate Professor, Education; B.A., State University of New York, Potsdam; M.S., Ed.D., 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)

Orelup, Margaret A., Assistant Professor, History; B.A., Butler University; M.A., George Washington University; Ph.D., University of Massachusetts, Amherst (1995)

Partello, 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., Assistant Professor of Journalism; B.A., Michigan State University; M.A., Ph.D., Northwestern University (1996)

Perron, Céline, Associate Professor, Theatre; B.F.A., Concordia University; M.F.A., University of Massachusetts, Amherst (1990)

Price, David, Associate Professor, History; B.S., United States Military Academy at West Point; M.A., American University; Ph.D., Emory University (1993)

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)

Roberts, John E., Professor, Art; B.F.A., Southern Massachusetts University; M.F.A., Southern Illinois University (1981)

Roelofs, Joan, Professor, Political Science; B.A., Barnard College; M.A., Ph.D., New York University (1979)

Rooß, Elisabeth T., Associate Professor, Theatre; B.A., Smith College; M.F.A., Northwestern University (1988)

Rooß, 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)

Sandy, Kirsti A., Assistant Professor, English; B.A., Rivier College; M.S., Ph.D., Illinois State University (2000)

Saucier, Karen L., Associate Professor, Health Science; B.Ed., Keene State College; M.S., Troy State College; C.A.G.S., Springfield College; Ed.D., Boston University (1969)

Sawyer, Deborah, Instructor, Wheelock School; B.S., State University of New York, Oneonta; M.Ed., Keene State College (1994)

Schmidt, Terry A., Associate Professor, Technology, Design, and Safety; B.S., M.S., University of Wisconsin-Stout (1977)

Scioli, Anthony, Associate Professor, Psychology; B.S., University of Massachusetts; M.A., Ph.D., University of Rhode Island (1991)

Seelen, Lisa, Instructor, Wheelock School; B.A., Vassar College; M.Ed., Lesley College (1995)

Seibert, M. Therese, Assistant Professor, Sociology; B.A., University of Southwestern Louisiana; M.A., Louisiana State University; Ph.D., University of Texas (1998)

Seigh, William R., Assistant 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, Associate Professor, Management; B.S., Lowell Technological Institute; M.S., University of Lowell (1989)

Smith, Margaret A., Instructor, Teacher Education/Graduate Studies; B.A., Clark University; M.A., Boston College (2001)

Smith, Pamela, Assistant Professor, Health Science; B.S., Hofstra University; M.S., Boston 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)

Stavely, Homer E., Jr., Professor, Psychology; B.A., DePauw University; Ph.D., Princeton University (1972)

Stepenuck, Stephen J., Jr., Professor, Chemistry; B.S., Merrimack College; M.S., College of the Holy Cross; Ph.D., University of New Hampshire (1970)

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., Assistant 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)

Stuart, Tara N., Professor, Communication; B.A., M.A., Ohio University; Associate of the University of London (1970)

Sullivan, Brian, Assistant Professor, Modern Languages; B.A., Drake University; M.A., University of Texas; Ph.D., University of Mexico (2001)
Sylvern, Craig S., Assistant 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, Assistant 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., Instructor, Physical Education; B.A., Calvin College; M.A., Central Michigan University (2001)

Timney, Mark C., Assistant Professor, Journalism; B.A., University of Pennsylvania; M.S., Ohio University (2001)

Tourgee, Ronald A., Professor, Computer Science; B.S., M.S., University of Rhode Island; Ph.D., University of South Florida (1964–1966; 1968)

Treadwell, Melinda D., Assistant Professor, Technology, Design, and Safety; B.S., Keene State College; Ph.D., Dartmouth College (2000)

Vander Haegen, Eleanor M., Professor, Sociology; A.B., Emmanuel College; M.A., Marquette University; Ph.D., University of Minnesota (1972)

Vara, Sheila M., Assistant Professor, Wheelock School; B.S. Lesley College; M.Ed., Antioch New England Graduate School (1986)

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., Assistant Professor, Sociology; B.A., Wheaton College; M.A., Ph.D., University of New Hampshire (2000)

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)

White, David E., Professor, Education; B.A., M.Ed., Ed.D., University of Virginia (1975)

Whittemore, Susan L., Associate Professor, Biology; B.S., State University of New York, Syracuse; M.S., Utah State University; Ph.D., Dartmouth College (1993)

Wilson, Andrew, Associate Professor, History and Philosophy; B.A., University of Vermont; M.A., Ph.D., Cornell University (1991)

Wise, Benjamin, Associate Professor, Biology; B.S., University of Michigan; Ph.D., Yale University (1976)

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)

Youga, Janet, 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)

Zjhra, Michelle L., Assistant Professor, Biology; B.A., Reed College; Ph.D., University of Wisconsin-Madison (2000)

Artists-in-Residence

Baldini, Donald, Music; B.M., Indiana University
Loring, George G., Music; B.A., Harvard College; M.A., New England Conservatory
Murdock, Marcia, Dance; B.A., Brandeis University

Adjunct Faculty

(As of January 2002, and based on five or more years of service)

Bayr, Christine, Modern Languages; B.A., Keene State College
Beaudry-Torrey, Ann, ESEC; B.S., M.Ed., Keene State College
Brown, Hal, Health Science/Sociology; B.S., Hawthorne College
Bulcock, Thomas, OSHA; B.A., University of New Hampshire; M.Ed., Keene State College
Caldon, Beverly, Music; B.S., M.S., University of New Hampshire
Carll, Polly, Technology, Design and Safety; B.Ed., M.Ed., Keene State College
Carr, Daniel, Art; B.A., Clark University
Cushing, Diane, Music; M.M., Boston Conservatory
Doubleday, Deborah, Education; B.A., M.Ed., Keene State College
Dube, Mary, Health Science; B.A., Mt. St. Mary’s College; M.S., University of New Hampshire
Dutton, Julia, French; B.A., Emmanuel College; M.A., Emmanuel College Graduate Program at the Université de Paris
Falzo, Holly, Communication; M.A.T., Keene State College
Farina, Daniel, Music; B.S., Shenandoah College and Conservatory; M.B.A., Shenandoah University
Feldmann, Joel, Physical Education; B.S., University of Colorado; M.Ed., Wayne State University
Friedman, Jeffrey, English; B.A., Macalester College; M.A., University of Missouri; M.F.A., University of Iowa
Gendron, Heather, Graphic Design; B.A., Keene State College
Hackerott, Robert, Technology, Design and Safety; A.S., Hutchinson Junior College; B.A., Fort Hayes State University; M.Ed., Keene State College
Hanley, William, Music; B.A., M.M., University of Massachusetts; M.A., American University

Hayden, Gerald, History; B.A., Keene State College; M.A., University of Massachusetts, Amherst

Henkel, Sussan, Music; B.M., Northwestern University

Hitchner, John, B.A., Glassboro State College; M.A.L.S., Dartmouth College,

Hornbeck, Vesta, English; B.A., Phillips University; M.Ed., Keene State College

Husted, Wayne, Special Education; B.A., M.A., Boston College

Johnson, Kathleen, Sociology; B.A., M.A., Ph.D., University of Massachusetts

Leduc, Richard, English; B.A., M.Ed., Keene State College

Lenthall, Gerard, Psychology; B.A., Swarthmore College; M.S., Stanford University; M.B.A., Harvard University; Ph.D., Duke University

Mann, Ted, Music; B.M., Keene State College; M.M., University of New Hampshire

Matathias, Robin, 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

Mccarthy, Michael, Communication; B.A., State University of New York, Cortland; M.A., State University of New York, Stony Brook

Mcgettigan, Jane, Health Science; R.N., Mary Hitchcock School of Nursing; B.S., Northeastern University

Merritt, Ann, Health Science; B.A., University of Vermont; M.S., University of Massachusetts

Miller, Theodore, Geography; B. Ed., M.Ed., M.A.T., Keene State College

Moynhan, Ellen, English; B.Ed., M.A.T., Keene State College

O'Brien, Thomas, Mathematics; B.S., St. John’s University; M.S., Adelphi University

Parent, Ruth, Communication; M.Ed., Antioch New England Graduate School

Phillips, Kate, Film Studies; B.A., M.A., New York University

Phillips, Sheila, Physical Education; E.M.T., Cheshire Hospital

Rice, Glenn, Psychology; A.B., Ph.D., Brown University; M.A., University of California

Rogers, Timothy, Music; B.A., M.M., Bob Jones University

Rojas, Camilo, Music; B.M., New England Conservatory; M.M., University of Massachusetts

Speaks, Mitchell, Psychology; B.A., University of California-Santa Barbara; M.A., California State-Long Beach; M.A., University of California-Irvine

Spector, Kenneth, Art; B.A., University of South Florida; M.F.A., University of Montana

Wakefield, Michael, Communication; A.A., B.S., M.Ed., Keene State College

West, Vaughn, Theatre; B.G.S., Ohio University

Witkowski, Griselda, Modern Languages and 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)


Danforth, Barbara, Wheelock School (1965-1972, 1984-2001)

Davis, Clarence G., Philosophy (1968-1985)

Doble, Richard F., Technology, Design and Safety (1968-2000)


Ebbighausen, Margaret D., 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)

Goff, Stuart, Mathematics (1969-1999)

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)

Keddy, Ruth W., Physical Education (1947-1967)

King, Keith V., Physical Education (1957-1987)
Langdon, Hope, Mason Library (1966-1981)
Lenthall, Gerard, Psychology (1978-2001)
Lovering, Sherman A., Education (1957-1985)
Lyle, Cornelius R., II, Journalism (1960-1986)
Martin, Roger E., Management (1987-2002)
Neuman, Robert S., Art (1972-1990)
Peters, Ann C., Mathematics (1948-1972)
Quirk, James D., Physics (1967-1997)
Regopoulos, George A., Mathematics (1961-1978)
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)
Sweeney, Christine M., Education (1969-1992)
Taylor, George H., Industrial Education and Technology (1955-1985)
Thompson, Paul E., Psychology (1967-1981)
Waling, Ann Britt, Health Science (1972-2001)
Whitaker, Kenneth W., Wheelock School (1964-1987)
Wolf, Jo Beth, Political Science (1976-1996)

Professional/ Administrative/ Technical Staff
(As of January 2002. Year of appointment in parentheses)
Ahern, Maureen, Art Gallery Director; B.F.A., University of Massachusetts, Amherst; M.A., State University of New York, Albany (1980)

Anderson, Ramona, 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)
Armstrong, Steven, Media Specialist, Center for Media and Instructional Technology; B.A., Keene State College (1980)
Babonis, Helen Z., Assistant Manager, Bookstore; B.S., University of Connecticut (2001)
Backes, Pamela, Assistant Director, Elliot Center – Academic and Career Advising; B.A. Alma College; M.A. Michigan State University (1986)
Baker, Robert, Director, Continuing Education; B.S., Franklin Pierce College (1990)
Barrett, Marcia J., Housing Coordinator, Residential Life; B.A., Keene State College (1999)
Benay, Phyllis, Skills Application Teacher, Director, Writing Center; B.A., Brooklyn College; M.A., New York University; M.S., University of Maine, Portland/Gorham; Ed.D, University of Massachusetts, Amherst (1997)
Bickford, Robin, Nurse, Health Services; R.N., Concord Hospital School of Nursing (2000)
Bleam, Nancy K., Athletic Trainer, B.A., Adrian College; M.A., Austin Peay State University (1996)
Blodgett, Patricia, 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)
Brandon, Craig, Skills Application Teacher, Journalism; B.A., State University of New York, Oswego (1995)
Bush, Francis, Mail Services; A.A. Trenton Junior College (1994)
Bush, Christopher, Information Technologist, Student Financial Services; B.S., M.S., State University of New York, Albany (1998)
Bys, Gail E., Bookstore Manager (1962)
Cahoon, Elizabeth, Admissions Counselor; B.S., Keene State College (1990)
Calvo, Jill, Educational Program Coordinator, OSHA Office; A.S., B.S., Keene State College (2000)
Carley, James, Associate Director of Residential Life; B.S., M.Ed., Penn State University (1990)
Chabot, Gary N., Business Analyst, Small Business Development Center; A.S., North Hampton Junior College; B.S., University of Massachusetts-Lowell; M.B.A., Babson College (1998)
Child, Cheryl, Information Technologist, Campus Technology Center; B.S., Keene State College (1991)
Christopher, Robert, Assistant Director of Campus Safety; B.S., M.S. Marshall University (1991)
Cleveland, Dorothy G., Director of Child Development Center; B.A., University of Massachusetts, Boston; M.Ed., Cambridge-Goddard Graduate School (1997)
<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Department</th>
<th>Education/Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erb, Maria B.</td>
<td>Information Technologist, Center for Media and Instructional Technology; B.S., Carnegie-Mellon University (2000)</td>
<td></td>
</tr>
<tr>
<td>Colbert, Robert</td>
<td>Men’s Basketball Coach; B.A., Marist College (1999)</td>
<td></td>
</tr>
<tr>
<td>Condon, Peter J.</td>
<td>Skills Application Teacher, Film; B.A., M.A., Keene State College (2001)</td>
<td></td>
</tr>
<tr>
<td>Cookson, Marilyn</td>
<td>Senior Administrative Assistant, President’s Office; A.S., Fisher College; B.S., Franklin Pierce College (1995)</td>
<td></td>
</tr>
<tr>
<td>Cooper-Ellis, Sarah</td>
<td>Facilitating Teacher, Child Development Center; B.S., Lesley College, Smith College; M.A., Smith College (2001)</td>
<td></td>
</tr>
<tr>
<td>Couture, Heidi B.</td>
<td>Career Planning and Placement Officer, Elliot Center; B.S., Mount Ida College; M.A., Suffolk University (2001)</td>
<td></td>
</tr>
<tr>
<td>Curtin, James J.</td>
<td>Information Technologist, Elliot Center – Registrar’s Office; B.S., Utah State University (1998)</td>
<td></td>
</tr>
<tr>
<td>Davis, Jeudi L.</td>
<td>Chemistry Lab Specialist; B.S., Pacific Lutheran University (1982)</td>
<td></td>
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<tr>
<td>Demmons, Daniel C.</td>
<td>Associate Manager, Bookstore; A.S., Keene State College (1997)</td>
<td></td>
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<tr>
<td>Denney, Brendan</td>
<td>Redfern Arts Center Manager; B.A., M.A., Keene State College (1990)</td>
<td></td>
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<tr>
<td>Denoncourt, Daniel G.</td>
<td>Educational Program Coordinator, National and International Exchange; B.A., Keene State College (2000)</td>
<td></td>
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<tr>
<td>Dickson, Julie</td>
<td>Executive Assistant to the President; B.A., College of Wooster; M.A., Temple University (1985)</td>
<td></td>
</tr>
<tr>
<td>Dintino, Maria</td>
<td>Associate Director, Aspire Program; B.A., University of New Hampshire; M.A.L.S., Keene State College (1992)</td>
<td></td>
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<tr>
<td>Dombroski, Martin J.</td>
<td>Assistant Manager, Bookstore; B.S., Keene State College (2000)</td>
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<tr>
<td>Donnelly, Joan</td>
<td>Skills Application Teacher, Communication; B.S., New Hampshire College; M.Ed., University of Southern Maine; Ph.D., Boston College (1988)</td>
<td></td>
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<tr>
<td>Donnelly-Major, Teresa</td>
<td>Bursar, Student Financial Services; B.A., State University of New York at Buffalo (2000)</td>
<td></td>
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<tr>
<td>Doyle, Martha</td>
<td>Nurse, Health Services; Hartford Hospital School of Nursing (1990)</td>
<td></td>
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<tr>
<td>Draper, James III</td>
<td>Director of Campus Purchasing and Contract Services; B.B.A., University of Massachusetts, Amherst (1986)</td>
<td></td>
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<tr>
<td>Duhaime, Lisa J.</td>
<td>Information Technologist, Campus Technology Center; B.A., Keene State College (2001)</td>
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<tr>
<td>Eldridge, Carrie E.</td>
<td>Residence Director, Residential Life Office; B.S., Emerson College (2001)</td>
<td></td>
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<tr>
<td>Erb, Maria B.</td>
<td>Information Technologist, Center for Media and Instructional Technology; B.S., Carnegie-Mellon University (2000)</td>
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<tr>
<td>Fagnelli, Amy</td>
<td>Residence Director, Residential Life Office; B.A., M.A., Slippery Rock University (2001)</td>
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<tr>
<td>Fairbanks, Carol</td>
<td>Administrative Accounting Specialist; A.A., B.A., Keene State College (1982)</td>
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<tr>
<td>Farina, Linda</td>
<td>Media Specialist, Center for Media and Instructional Technology (1988)</td>
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<tr>
<td>Featherston, Katherine K.</td>
<td>Senior Laboratory Technician, Science Center; B.S., University of Maine (1998)</td>
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<tr>
<td>Felch, Anna</td>
<td>Information Technologist, Administrative Information Services (1998)</td>
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<tr>
<td>Friedman, Jeffrey</td>
<td>Information Technologist, Admissions Office (1998)</td>
<td></td>
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<tr>
<td>Gallagher, Steven</td>
<td>Accountant, Student Financial Services; B.S., Plymouth State College (1999)</td>
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<tr>
<td>Gempler, Mark N.</td>
<td>Assistant Director, Operations, Young Student Center; B.A., Grinnell College (1996)</td>
<td></td>
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<td>Gibson, Tomi A.</td>
<td>Information Technologist, Campus Technology Center; B.A., M.Ed., Keene State College (1997)</td>
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<tr>
<td>Glotzer, Alan</td>
<td>Director, TRIO Programs; B.S., M.A., Hofstra University (1979)</td>
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<tr>
<td>Grimstad, Sandra</td>
<td>Information Technologist, Center for Media and Instructional Technology; B.A., Ohio State University (1998)</td>
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<td>Haggarty, Nancy M.</td>
<td>Graphic Designer, College Relations; B.A., Simmons College (1995)</td>
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<tr>
<td>Haines, R. Michael</td>
<td>Coordinator of Travelli-Ayling Scholarship Program and Skills Application Teacher; B.A., Hiram College; M.A., Ph.D., Ohio State University (1989)</td>
<td></td>
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<tr>
<td>Halloran, Pat</td>
<td>Coordinator of Academic Support; B.A., Boston College; M.Ed., Keene State College (1995)</td>
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<tr>
<td>Halter, John D.</td>
<td>Budget Coordinator; B.S., Rollins College (1982)</td>
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<td>Happgood, Jennifer</td>
<td>Residence Director, Residential Life Office; B.A., Keene State College; M.Ed., University of Maine (1999)</td>
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<tr>
<td>Harkness, Kimberly</td>
<td>Assistant Director, Human Resources; B.A. Keene State College (1986)</td>
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<td>Hayes, Donald</td>
<td>Community Services Coordinator; B.A., Vermont College; M.A., New Hampshire College (1994)</td>
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<tr>
<td>Hearn, Jeanne</td>
<td>Assistant Director, Aspire; B.S., M.Ed., Springfield College (1988)</td>
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<tr>
<td>Hearn, Patrick</td>
<td>Recreational Athletics Coordinator, Intramural Recreation; B.S., St. Lawrence University; M.Ed., Springfield College (1999)</td>
<td></td>
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<tr>
<td>Herold, Irene</td>
<td>Director, Mason Library; B.A., M.L.S., University of Washington (2002)</td>
<td></td>
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<tr>
<td>Hill, David S.</td>
<td>Dean, Professional and Graduate Studies; B.A., Allegheny College; M.Ed., Ed.D., Temple University (1985)</td>
<td></td>
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<tr>
<td>Hodges, David Mark</td>
<td>Information Technologist, Campus Technology Center; B.A., University of California-Berkeley (2001)</td>
<td></td>
</tr>
<tr>
<td>House, Karen</td>
<td>Associate Vice President for Finance; B.S., University of Virginia (2000)</td>
<td></td>
</tr>
</tbody>
</table>
Howe, Kenneth, Baseball Coach; B.A., Keene State College (1999)

Hurblurt, Hannah, Program Coordinator, Early College Awareness Program; B.S., Keene State College (2001)

Jasmin, Heather, Information Technologist, Institutional Research; B.S., Keene State College; M.B.A., Plymouth State College (1990)

Jensen, Mary, Recycling Coordinator; B.A., Keene State College; M.A., Vermot College of Norwich University (1999)

Justice, Chris, Graphic Designer, College Relations; B.A., University of Delaware; B.A., Keene State College (1985)

Kalich, Judith, Director of Advancement; B.A., Pennsylvania State University; M.A., Michigan State University (1995)

Kaufman, Stuart, Sports Information Coordinator; B.A., University of Massachusetts, Amherst; M.Ed., Springfield College (1992)

Kelley, Robert, Information Technologist, Administrative Information Services; B.S., University of Rhode Island (1994)

Kessler, Steven C., Educational Program Coordinator, Continuing Education; B.A., M.A.T., Colgate University (1997)

Larracey, Merle S., Director, Teacher Education/Graduate Studies Office; B.S., State University of New York, Plattsburgh; M.Ed., Keene State College (1972)

Leversee, 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)

Lodge, Gloria A., Director of Human Resources; B.A., University of New Hampshire (1997)

Lothrop, Caroll L., Early Childhood Teacher, Child Development Center; B.S., University of Massachusetts, Amherst (1996)

Lyons, Denise, Women’s Soccer Coach; B.S., Keene State College (1996)

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)

Martinez-Bohannon, Misty, Assistant Director, Student Financial Services; B.A., Keene State College (1994)

Matros, Michael, Director, College Relations; A.B., Duke University; M.F.A., University of North Carolina-Greensboro (1997)

Matthews, James, Special Assistant to the Vice President for Student Affairs for Drug and Alcohol Programs; B.S., Manhattan College; M.S., Queens College (1991)

Mayshark-Stavelly, Mary, Facilitating Teacher, Child Development Center; B.A., Antioch College; M.A., Sonoma State University (1986)

Mazzola, Frank, Director, Physical Plant Operations; B.S., State University of New York College of Technology (1993)

McGreer, Heather J., Assistant Director, Human Resources; B.S., Syracuse University (1997)

McNulty, Deborah, Nurse, Health Services (1992)

McPartlin, Deirdre, Early Childhood Teacher, Child Development Center; B.S., Keene State College (1995)

Medved, Carla, Nurse Practitioner, Health Services; University of Vermont (1990)

Menezes, William, 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, Associate Dean for Student Affairs: Student Life; B.S., M.S., Michigan State University (1993)

Miller, Rita M., Interim Dean, Arts and Humanities; B.S., University of Nebraska; M.D., University of Massachusetts, Amherst (1989)

Mobilia, Charles L., Information Technologist, Campus Technology Center; B.A., Lycoming College (1997)

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)

Orsman, 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., Manager, Student Technology Support Services; A.S., Endicott Junior College; B.S., Johnson State College (1997)

Parsons, John W., Information Technologist, Student Technology Support Services; A.S., Finger Lakes Community College (1997)

Perry, Cheryl, Theatre Operations, Redfern Arts Center; B.A., Keene State College (1991)

Perry, Judith, Director of Academic & Career Services and Coordinator of Adult Learner Services; B.A., Syracuse University; M.Ed., Keene State College (1989)

Phillips, Eileen, Skills Application Teacher, Director, Math Center; B.A., Utica College; M.S., SUNY College at Potsdam (1998)

Piper, Pat, Information Technologist, Administrative Information Services; B.A., University of Maryland (1985)

Poirier, Bert, Associate Director of Admissions; B.A., Keene State College (1985)
Powers, Bonnie J., Information Technologist, College Relations; B.A., Keene State College (1998)

Powers, Glenn T., Interim Director, Client Services; B.S., Keene State College (1997)

Price, Sandra J., Director of Institutional Research; B.A., Smith College; M.Ed., Ed.D., University of Massachusetts, Amherst (1989)

Putzel Price, Judith, Associate Director of Counseling Services; B.A., Vassar College; M.Ed., Ed.D., University of Massachusetts, Amherst (1986)

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)

Ratcliff, John C., Director of Athletics and Recreational Sports; B.S., Davidson College; M.S., Ohio University (1995)

Richard, Thomas M., Academic Support; B.S., University of Massachusetts, Amherst; M.O.E., Keene State College; Registered Dietitian (1980)

Richmond, Margaret, Director, Admissions; B.A., University of New Hampshire (1984)

Rilling, Kin N., Information Technologist, Administrative Information Services; B.A., Barnard College; M.S., Keene State College; A.D., Community College of Vermont; M.B.A., Plymouth State College (1996)

Robinson, Andrew, Associate Dean for Student Affairs: Student Development; B.A., Allegheny College; M.S., Ph.D., Syracuse University (1991)

Russell, Carole L., Early Childhood Teacher, Child Development Center; B.S., Michigan State University (1997)


Sands, Carole, Facilitating Teacher, Child Development Center; B.A., Wesleyan University; M.A., Wheelock College (1990)

Sanger, Kirk, Residence Director, Residential Life Office; B.A., Keene State College (2001)

Schmidl-Gagne, Kimberly, Residence Director; B.A., North Adams State; M.A., Ohio State University (1989)

Schmidl-Gagne, Mark, Dispute Resolution Coordinator, Student Development; B.A., University of Massachusetts, Amherst; M.Ed., Keene State College (1995)

Seraichick, Laura J., Interim Chief Information Officer; B.A., University of Massachusetts, Amherst (1997)

Sielke, Susan M., Registrar; B.S., East Stroudsburg State College; M.Ed., Plymouth State College (1984)

Simonelli, Eric M., Counselor, Admissions; B.S., Endicott Junior College (2001)

Singh, Indira, Director, Campus Technology Services; B.S., State University of New York, Buffalo; M.B.A., Plymouth State College (1989)

Skibb, Myra, Director of Health Services; R.N., Orange Memorial School of Nursing (1975)


Sprague, Deborah, Assistant Director, Student Financial Services; A.A., A.S., Keene State College (1989)

Stern, Vanessa C., Child and Family Coordinator, Child Development Center; B.A., University of Vermont; M.Ed., Rutgers University (2000)

Strifert, Patrice, Assistant Director of Programs, Young Student Center; B.A., Meredith College; M.A., Appalachian State University (1990)

Striffolino, Paul, Director, Young Student Center; B.S.Ed., State University of New York, Geneseo; M.A., Bowling Green State University (1989)

Swisher, Karen R., Director, Center for Media and Instructional Technology; B.S., Merrimack College, M.Ed., Keene State College (1979)

Szydlo, Susan, Nurse, Health Services; R.N., New Hampshire School of Nursing (1989)

Tandy, Peter, Academic Counselor, Graduate Studies; B.A., University of New Hampshire; M.S., Antioch New England Graduate School (1995)

Thomas, Peter, Track/Cross Country Coach; B.S., Keene State College (1999)

Tilton, Laurie L., Assistant Director, Advancement; B.A., Franklin Pierce College (2001)

Tilton, Robert L., Information Technologist, Student Financial Services; B.S., Keene State College (2000)

Ullman, Erik B., Information Technologist, Center for Media and Instructional Technology; (1999)

Viall, Sasha J., Admissions Counselor; B.A., Keene State College (1997)

Ward, Scot, Athletic Trainer, Physical Education; M.S., Indiana University (1999)

Warman, Amanda G., Director, Campus Safety; B.S., Northwestern University (2001)

Warner, Jane A., Coordinator, Disability Services, Elliot Center; B.S., M.Ed., Springfield College (2000)

Whittaker, Kenneth, Information Technologist, Campus Technology Center; A.S., Thames Valley State Technical Institute (1979)

Whittemore, Suzanne, Information Technologist, Administrative Information Services; B.G.S., College for Lifelong Learning (1993)

Wiernicki, Peter J., Residence Director, Residential Life; B.A., Alfred University; M.A., Indiana University of Pennsylvania (1999)

Wiley, Liane, Accountant, Business Office; A.S., Mt. Wachusett College; B.S., Franklin Pierce College (1999)

Williams, Elizabeth, Telecommunications Specialist; B.A., Kalamazoo College (1995)

Williams, Michel, Assistant Director of Residential Life; B.A., M.A., California State University, Chico (1986)
Winder, Patty, Associate Director, Student Financial Services; B.S., Howard-Payne University; M.A., University of Arkansas (2001)

Winsor, Arthur, Jr., Assistant Director of Physical Plant/Grounds; B.S., University of Rhode Island (1993)

Yampanis, Karen M., Early Childhood Teacher, Child Development Center; B.S., Keene State College (2001)

Yang Handy, Angela K., Counselor, Admissions; 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)

Operating Staff
(As of January 2002. Year of appointment in parentheses)

Anderson, Agnes, Scheduling Office; B.S., SUNY-Albany; M.Ed., Keene State College (1992)

Arsenault, Carol, Professional Studies; B.S., Keene State College (1979)

Arsenault, Dianne, Athletics (1989)

Atherton, Kerry, Physical Plant Office; A.A., Keene State College (1985)

Aubrey, Nancy A., Arts and Humanities Division (2001)

Baggs, Marleen, Elliot Center – Academic and Career Advising (1978)

Balla, Nancy, Residential Life; B.S., Keene State College (1990)

Beauregard, Mark, Physical Plant (1988)

Bond, Pamela, Residential Life (1990)

Boswell, Catherine, Mason Library (1992)

Bosworth, Norman, Physical Plant (1993)

Briggs, Barbara, Teacher Education Office (1971)

Brockway, Barbara, Admissions Office (1990)

Butler, Deborah, Athletics (1994)

Cadmus, Whitney, Advancement Office; B.G.S., College of Lifelong Learning (1979)

Carpenter, Lea, Campus Safety (1998)

Carrién, Dorothy, Professional Studies Division; A.A., Montgomery Junior College; B.A., Keene State College (1993)

Clark, Carol, Elliot Center (1990)

Clark, Deborah, Elliot Center – Registrar’s Office (1980)

Clark, Elizabeth, Mail Services (1998)


Cormier, Christopher R., Physical Plant; B.S., Keene State College (2000)

Croteau, Beth, Bookstore (2001)

Cucchiara, Linda, Mason Library; A.S., Mount Wachusett Community College; B.S., Keene State College (1985)


Denico, Richard, Physical Plant (1985)

Desmarais, Adrian, Physical Plant Office (1984)

Dettelback, Rosemary, Vice President for Finance and Planning Office; B.S., Keene State College (1988)

Dionne, Pauline, Vice President for Academic Affairs Office (1966)

Dube, Jennifer J., Bursar’s Office (1999)

Dufresne, Alan, Physical Plant (2000)

Dumond, Nathan, Physical Plant (2000)

Dumond, Robert, Physical Plant (1994)


Elliston, Paul, Physical Plant; B.S., Keene State College (1994)

Ellsworth, Jane, Wheelock School (1993)

Erickson-West, Susan, Dean of Professional Studies Division Office; B.A., University of New Hampshire (1989)

Favreau, Felicia, Professional Studies (1989)

Feiker, Frederick, Physical Plant (1976)

Filipi, Joseph M., Campus Safety (2001)

Flanagan, Christina L., Elliot Center - Registrar’s Office; A.S., Mount Wachusett College (2000)

Ford, Judith, Curriculum Materials Library; B.A., Transylvania University (1989)


Fuller, Michael H., Physical Plant (2001)

Fuller, Michelle, College Relations (1987)

Garland, Jeff, Physical Plant; B.A., University of New Hampshire; B.S., Stockbridge School of Agriculture (1996)

Gibson, Dana W., Mail Services (2001)

Gitchell, Nancy, Science Division; B.S., University of Maine (1988)

Goding, Susan, Elliot Center – Registrar’s Office (1989)

Gomez, Michael, Campus Safety (2000)

Gowing, Charles E., Campus Safety; A.S., Bay State Community College (1997)

Green, Stephen, Physical Plant (1989)

Greene, Catherine, Human Resources (1986)

Haines, Beverly, Mason Library (1991)

Hale, Anne L., Student Financial Services (1999)

Hall, Laurie A., Child Development Center (2000)

Harlow, Shane, Campus Safety (2001)

Hartz, Peter, Physical Plant; B.A., Keene State College (1989)

Hitchner, Patricia, Arts and Humanities Division; A.S., Keene State College (1988)

Huntley, Joel, Campus Safety (1995)

Huntley, Sheryl, Continuing Education; A.A., B.A., Keene State College (1985)

Huston, Robert, Campus Safety (1988)

Johnson, Colleen, Thorne-Sagendorph Art Gallery (1995)

Johnson, Ramona Martineau, Residential Life; B.A., Keene State College (1996)

Kaminski, Karyn, Human Resources (1987)
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<th>Name</th>
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<td>Karr, Katherine F.</td>
<td>Central Stores</td>
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<td>Alumni and Parent Relations; B.S., Trinity College</td>
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<td>St. Pierre, Scott A.</td>
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<td>Ward, Michael C.</td>
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<td>Whitney, Bette</td>
<td>Mail and Print Services; A.A., B.A., Keene State College</td>
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<td>Whittle, Ann</td>
<td>Admissions Office; A.A., Northampton Junior College</td>
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<td>Wiggins, Jessie</td>
<td>Student Loans; A.S., Keene State College</td>
<td>1988</td>
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<td>Williams, Mary Ann</td>
<td>Dean of Sciences Division Office; B.A., Keene State College</td>
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<td>Wilson, Laura</td>
<td>Redfern Arts Center; B.A., Keene State College</td>
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</table>
Awards Conferred by the College

Honorary Degrees

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

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
Margaret M. Dixon  
Bachelor of Arts

1977
George Robert Stibitz  
Doctor of Science

1976
Frank H. Blackington III  
Doctor of Humane Letters  
Lael Tucker Wertensbaker  
Doctor of Literature

1975
Fairfax D. Downey  
Doctor of Humane Letters  
Frank W. Lane Jr.  
Doctor of Science  
David F. 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 McGreel  
Doctor of Humane Letters
Granite State Awards

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  Windsor G. Brooks, Keene
      Andrea A. Scranton, Keene
1986  Margaret C. Bean, Jaffrey
      Priscilla Frechette Maynard, Keene
1984  Sheldon L. Barker Sr., Keene
      Charles H. O’Neil Jr., M.D., Keene
1983  Bernard A. Streeter, Keene
1982  Rev. Denis Horan, Marlborough
1981  Pat Haley, Spofford
      Richard T. Snowman, M.D., Keene
1979  David R. Proper, Keene
1978  Robert F. Babcock, Keene
      Newton F. Tolman, Nelson
1977  Eric Kromphold, Keene
      Ralph Page, Keene
1976  Ruth Seaver Kirk, Keene
      Marjorie Whalen Smith, Sullivan
1975  John C. Perry, Keene
      Carol J. Pierce, Laconia
1974  Harry C. Tenney, Surry
      Dorothy M. Young, Keene
      (awarded posthumously)
1973  Kay Fox, Keene
      Dorothy F. Kingsbury, Keene
1972  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

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, Psychology
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. Benauquist, 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  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  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

2001  Jerry P. Jasinski, Chemistry
2002  William E. Doreski, English
### Numerical Key

1. Visitor Information Booth  
2. Keddy House  
3. Joslin House  
4. Elliot Hall  
5. Rhodes Hall  
6. President’s House  
7. Morrison Hall  
8. Parker Hall  
9. Hale Building  
10. Blake House  
11. Randall Hall  
12. Fiske Annex  
13. Fiske Hall  
14. Huntress Hall  
15. Butterfield Hall  
16. Monadnock Hall  
17. Cheshire House  
18. Adams Technology Bldg  
19. Science Center  
20. Zorn Dining Commons  
21. Mason Library  
22. Sculpture Studio  
23. Grafton House  
24. Tisdale Family Apts  
25. 51 Bruder Street  
26. 34 Bruder Street  
27. Lammela House  
28. Pondside Apartments  
29. Pondside Hall  
30. Redfern Arts Center  
31. Bushnell Family Apts  
32. Thorne-Sagendorph Art Gallery  
33. Spaulding Gymnasium  
34. Young Student Center  
35. 83-85 Blake Street  
36. 81 Blake Street  
37. 88 W Winchester Street  
38. Merrimack House  
39. 8-10 Madison Street  
40. 115 Winchester Street  
41. Holloway Hall  
42. 48 Butler Court  
43. Owl’s Nest No. 1  
44. Owl’s Nest No. 2  
45. Owl’s Nest No. 3  
46. Owl’s Nest No. 4  
47. Owl’s Nest No. 5  
48. Owl’s Nest No. 6  
49. Owl’s Nest No. 7  
50. Owl’s Nest No. 8  
51. Owl’s Nest No. 9  
52. Laundry  
53. Carle Hall  
54. Whitcomb Building  
55. Recycling and Kiln  
56. Proctor House  
57. Carroll House  
58. Wheelock School  
59. Residential Life Office

### Alphabetical Key

**Administrative Buildings**

- 81 Blake Street
- 29 Butler Court
- Cheshire House
- Elliot Hall
- Fiske Annex
- Grafton House
- Hale Building
- President’s House
- Residential Life Office
- 115 Winchester Street
- Young Student Center
- Adams Technology Bldg
- Blake House
- Butterfield Hall
- Joslin House
- Mason Library
- Morrison Hall
- Parker Hall
- Redfern Arts Center
- Rhodes Hall
- Science Center
- Sculpture Studio
- Spaulding Gym
- Wheelock School
- Whitcomb Bldg (Ceramics)
- 88 Winchester Street

**Residential Buildings**

- 84-85 Blake Street
- 34 Bruder Street
- Bushnell Family Apts.
- Carle Hall
- Carroll House
- Fiske Hall
- Holloway Hall
- Huntress Hall
- Lammela House
- Keddy House
- Merrimack House
- Monadnock Hall
- 43-51 Owl’s Nest No.
- Pondside Hall
- Pondside Apartments
- Proctor House
- Randall Hall
- Tisdale Family Apts.

**Academic Buildings**

- Whitcomb Bldg (Ceramics)
- 34-85 Blake Street
- 34 Bruder Street
- Bushnell Family Apts.
- Carle Hall
- Carroll House
- Fiske Hall
- Holloway Hall
- Huntress Hall
- Lammela House
- Keddy House
- Merrimack House
- Monadnock Hall
- 43-51 Owl’s Nest No.
- Pondside Hall
- Pondside Apartments
- Proctor House
- Randall Hall
- Tisdale Family Apts.

**Additional Facilities**

- Laundry
- Recycling and Kiln
- Thorne-Sagendorph Art Gallery
- Visitor Information Booth
- Zorn Dining Commons
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<td>Degrees Awarded</td>
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