



# Plymouth State University

OF THE UNIVERSITY SYSTEM OF NEW HAMPSHIRE

## ACADEMIC CATALOG 2009–2010

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## President's Message

In choosing Plymouth State University, you have joined an exciting and energetic academic community. We are a regional comprehensive university with a heritage of excellence in teaching and a commitment to innovation and engagement.

At PSU, you will participate in a challenging curriculum designed to ensure that you will graduate well prepared to succeed, having both broad-based knowledge and the focus of a major. You will work side-by-side with faculty mentors, many of whom are nationally and internationally known in their fields, and PSU faculty and staff members are dedicated to your academic and personal success. We are proud that our graduates go on to fine careers around the globe.

You will live and study in facilities with first-rate technology, from the award-winning Langdon Woods Residence Hall to the Lamson Library and Learning Commons and the Silver Center for the Arts. The hub of campus social life is the Hartman Union Building, where you can study, stop at a coffee shop or bookstore, gather around the fireplace with friends, or play basketball. You will be able to choose from many student organizations according to your interests, and I encourage you to enhance your classroom learning by participating in campus activities and performances, community service, study abroad, or an internship.

Plymouth State University is a personal place, with a beautiful campus in a Main Street New England town, located in one of the most spectacular wilderness and recreational areas in the country. Whether you like skiing, snowboarding, hiking, golfing, kayaking, or contemplating an inspiring landscape, there is something for you to enjoy.

Welcome to our community.



Sara Jayne Steen  
President



## The University



## The University

Plymouth State University is a public regional comprehensive university of approximately 4,300 undergraduate students and 2,700 graduate students. It has a long tradition of meeting the evolving educational needs of the New Hampshire and New England communities. Established in 1871 as Plymouth Normal School, the institution became Plymouth Teacher's College in 1939, Plymouth State College in 1963, and Plymouth State University in 2003. PSU's attractive residential campus of wide greens, tree-lined walkways, and traditional brick buildings is located in the foothills of the White Mountains and the Lakes Region of New Hampshire, a pristine rural setting of great natural beauty and multiple outdoor recreational opportunities.

### Accreditation

Plymouth State University is accredited by the New England Association of Schools and Colleges. This accrediting body is the nationally recognized, non-governmental organization whose mission is to evaluate the quality and integrity of educational programs. A committee of college and university administrators and faculty from throughout New England spends considerable time evaluating schools seeking this accreditation. Institutions earning this accreditation are judged to be providing educational experiences that can be transferred to any other accredited college or university in the nation.

In addition to being accredited by the New England Association of Schools and Colleges, Plymouth State University is approved by the New Hampshire State Department of Education. The professional education programs at Plymouth State University are accredited by the National Council for the Accreditation of Teacher Education (NCATE), 2010 Massachusetts Avenue NW, Suite 500, Washington DC 20036; phone (202) 466-7496. This accreditation covers initial teacher preparation programs and advanced educator preparation programs. NCATE is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other school personnel.

Program-specific accreditations include the following: Athletic Training program by the Commission on Accreditation of Athletic Training Education Programs of the American Medical Association; Computer Science program by the Computing Accreditation Commission of ABET, Inc.; Social Work program by the Council on Social Work Education; the bachelor's degree programs in Accounting, Business Administration, Finance, Management, and Marketing, and the Master of Business Administration by the Association of Collegiate Business Schools and Programs; and the Mental Health and School Counseling programs by the Council for Accreditation of Counseling and Related Educational programs.

### Mission

As a regional comprehensive university, Plymouth State University serves New Hampshire and New England by preparing well-educated graduates, by offering ongoing opportunities for graduate education and professional development, and by extending to communities partnership opportunities for cultural enrichment and economic development. In each of these roles, Plymouth State University has a special commitment of service to the North Country and the Lakes Region of New Hampshire.

### Values

The University motto, *Ut prosim* (that I may serve), underscores the values upon which the Plymouth State University mission is built. These values are supported by the faculty, staff, and administration through a commitment to excellent teaching based on scholarship, research, and creative endeavor; active involvement in university activities; and service to the wider community. Plymouth State University emphasizes sustainability. Plymouth State University creates an environment that supports diversity, equity, and inclusiveness for the entire community and actively prepares students to participate respectfully and responsibly in a pluralistic society. Plymouth State University is committed to providing the best possible educational programming and strives for continuous program improvement through comprehensive institutional assessment.

The educational philosophy of the University is based on academic excellence, learner-centered teaching, experiential learning, applied research, regional service, and leadership. The Plymouth State University education features a complementary relationship between liberal arts and professional studies, between academic and personal development, between service and individual growth, and between the University campus and the larger community.

### Academic Programs

Programs of study are designed to engage students and to prepare them for gratifying and productive careers. The undergraduate general education program gives students a broad perspective on ideas and an awareness of diverse human experiences and cultures. Academic majors and minors build on this foundation by providing concentrated learning in areas of choice. Graduate programs provide professional competency and leadership as well as the advancement of knowledge in specialized areas. In both undergraduate and graduate programs, experiential learning in the world of career and professional practice such as internships, field experiences, service learning, study abroad programs, and other practical learning partnerships allow students to become directly involved in testing and applying academic theories.

Education in the liberal arts and sciences and in several professional fields is provided through baccalaureate and advanced

degree programs. Plymouth State University is authorized to confer the Bachelor of Arts (BA), the Bachelor of Fine Arts (BFA), and the Bachelor of Science (BS) degrees to students who complete these programs of study. The University offers 47 four-year major programs of study, many of which have specialized curricular options within them, including 15 state-approved and NCATE-accredited teacher certification programs. In addition, a degree in interdisciplinary studies allows a student to concentrate in two or more areas. A wide variety of minors are available, giving students an opportunity to study outside their chosen major and to enhance their academic experience in other fields of interest. If students are uncertain of the specific field of study they want to follow, PSU allows them to emphasize the strong liberal arts general education program at the core of every undergraduate degree program while they decide on a major during their first year or two. The College of University Studies assists these deciding students. For further information, see the description of the College of University Studies in the Academic Resources section.

Advanced degrees offered at Plymouth State University include the Master of Arts in Teaching (MAT), the Master of Business Administration (MBA), the Master of Education (MEd), the Master of Science (MS), the Certificate of Advanced Graduate Studies (CAGS), and the Doctor of Education in Learning, Leadership, and Community (EdD). The Master of Education degree program offers courses in a variety of disciplines. Bachelor's degree studies dovetail nicely with graduate study; in fact, students who choose undergraduate courses wisely can earn a bachelor's degree and an MAT, MBA, or MEd at Plymouth State University in a five-year program.

Students may enroll in academic year and/or summer courses to complete various degree programs. For more information, please consult the Plymouth State University Graduate Catalog, call the College of Graduate Studies at (800) FOR-GRAD, or visit PSU Graduate Studies online at [plymouth.edu/graduate](http://plymouth.edu/graduate).

The nearly 200 resident faculty members at Plymouth State University share a commitment to teaching and preparing students for careers in their fields, and 92 percent hold a doctoral or other terminal degree. Faculty members are active in their respective fields—attending conferences; presenting papers, workshops and seminars; working as consultants; participating in exhibitions; performing in concerts; and writing books, articles, plays, and musical compositions. The student-faculty ratio is 21:1. Each student has a faculty member as an advisor.

Opportunities exist for service learning internships within the larger community and for international study. Students are encouraged to broaden their academic experience by studying for a semester or a year as part of a national or international exchange program. As a member of the New Hampshire College and University Council, Plymouth State University offers students an opportunity for in-residence study at other colleges within the state. PSU has official affiliations with

programs around the world, including the Freshman Abroad Program at the University of Limerick in Ireland. For further information, see the section on Study Away Opportunities in the Academic Resources section of this publication.

## History

Plymouth State University evolved from Holmes Plymouth Academy, which dates back to 1808 as a pioneer institution for teacher training. As early as 1836, the Reverend Charles Brooks lectured before the legislature of New Hampshire and throughout the state on the subject of normal schools. An “act for the establishment and management of a state normal school for the better training of teachers” was passed in 1870.

The board of trustees located the New Hampshire State Normal School in Plymouth in 1871; the town of Plymouth had offered the Holmes Plymouth Academy and other support to the new school. In 1874, at least 20 years before the system was attempted in any other normal school in the country, the grade and high schools of Plymouth had been organized as training schools under the supervision of the normal school. A new school building (Rounds Hall) and a new dormitory were built in 1890.

In 1911, Dr. Ernest L. Silver, with experience as a superintendent of schools and as principal of Pinkerton Academy, began a 35-year administration of the school, which saw the school grow to maturity both professionally and physically. Poet laureate Robert Frost, who taught in Rounds Hall and lived on campus from 1911 through 1912, wrote of Dr. Silver on the occasion of the 75th anniversary of the institution and the 35th year of Dr. Silver's presidency in 1946: “We all owe Mr. Silver a debt of gratitude for the large and liberal way he encouraged our individualities both as teachers and students under him. I went to Plymouth with him when he began his presidency and I have kept up friendly interest in the whole 35 years of his unusually long administration. It warms the heart with reassurance to look on at anything that persists so successfully in this world of broken pieces.”

In 1927, the American Council of Teacher Colleges evaluated Plymouth Normal School and rated it a Grade A teachers college—a rating it has held ever since. In 1937, New Hampshire's state legislature officially recognized the increased stature of the institution by changing its designation to Plymouth Teachers College and, in 1963, to Plymouth State College of the University System of New Hampshire. In 1948, the College offered its first graduate degrees. In 2003, the state legislature changed the institution's name to Plymouth State University in recognition of the range and depth of its programming.

## Location

Students come to Plymouth State University for its caring academic community and friendly campus, the Main Street New England setting, and easy access to New Hampshire's great outdoors. With the White Mountains to the north, the Lakes Region

to the south, and the Pemigewasset River bordering the town to the east, Plymouth is home to some of the country's most spectacular wilderness. Plymouth State University students step outside every morning into a natural landscape that provides four seasons of recreational and educational opportunities. Here, the outdoors offers a laboratory, a classroom, and a playground. Students in the arts and sciences sketch, describe, and study the area's distinctive seasonal landscapes. Meteorology students forecast the local weather and work in the surrounding areas on grant projects involving wind energy and climate changes. Geology students hike local trails and track the glacial migration of the last Ice Age. Archeological field schools dig the land and dive the waters to discover lost pieces of our heritage.

Traditional residence halls and student apartments sit in a landscaped, wooded section of the campus. PSU's newest building, Langdon Woods Residential Complex, is New Hampshire's first building—and one of the nation's largest residences halls—to earn gold-level certification by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program. Receiving the gold LEED certification symbolizes the University's commitment to developing an environmentally sustainable plan that will have a positive effect for the future. PSU's oldest residence hall, Mary Lyon Residence Hall, has recently undergone a large-scale renovation. In its remodeling, attention was paid to historic detail as well as to environmental sustainability, making the nearly 100-year-old building 40 to 50 percent more energy efficient.

During their free time, students are cycling the area's back roads and highways; jogging wooded paths; skiing the slopes at Tenney, Cannon, Loon, Waterville Valley, or a number of other mountains; and snowshoeing and hiking dozens of trails within a short drive. Neighboring Rumney is world-famous for rock climbing. The Pemigewasset and Baker Rivers provide whitewater to kayakers and canoeists. The lakes—Little and Big Squam, Newfound, and Winnepesaukee—are popular for sailing, flatwater paddling, water skiing, even scuba diving. The campus is nestled in the town of Plymouth and is less than a two-hour drive from Boston on Interstate 93. Two hours to the east is Portland, ME; two hours northwest is Burlington, VT; and Montreal, Canada, is three and a half hours north.

## Campus

In the midst of New Hampshire's Lakes Region and the foothills of the White Mountains, PSU's main campus in the picturesque town of Plymouth is just minutes from Interstate 93. The University has five sites listed on the New Hampshire Heritage Trail, including its landmark Rounds Hall, home to the Departments of Education and Social Science. The bell in the Rounds Hall clock tower was cast by apprentices of Paul Revere. Frost House is where poet Robert Frost lived from 1911 to 1912 while he taught education and psychology at Plymouth. Holmes' Rock marks the site of Holmes Plymouth Academy, established in 1808, the first training school for teachers in New Hampshire.

The beautifully restored Draper & Maynard Building, home to the Departments of Art and Health and Human Performance, was originally a factory for the country's largest supplier of sporting goods. The world champion Red Sox visited the factory in 1916, an event memorialized by a now-classic photo of Babe Ruth sewing a cover on a baseball.

The Silver Center for the Arts, which hosts world-class performers year-round in Plymouth, stands on the site of a house that was once a stop on the Underground Railroad for slaves escaping to Canada. Silver is home to the University's Department of Music, Theatre, and Dance, and is equipped with a 665-seat main stage theatre, a 174-seat recital hall, and a multipurpose "black-box" studio theatre, as well as classrooms and practice facilities for music, theatre, and dance students.

A multi-million dollar renovation to PSU's science facility, Boyd Science Center, opened in the fall of 2003. The facility, which includes a planetarium, weather station, and the Center for the Environment, is a Lakes Region and North Country resource. From teachers and their students to community members, environmental organizations, and researchers, the Boyd Science Center is a hub for information and experimentation, as well as a gathering place to put science into action.

Hartman Union Building (known as the HUB) in the center of campus includes a snack bar and café, the University bookstore, fitness and aerobics rooms, a gymnasium, meeting rooms, administrative offices, and offices for student government, media, and activities. Nearly 2,500 meetings, receptions, programs, and conferences are held there annually.

The recently expanded and renovated Herbert H. Lamson Library and Learning Commons houses nearly one million print and non-print items, online facilities for database searches, a public-access catalog of its holdings, and an automated circulation system. Lamson Library, with its extensive electronic infrastructure, was built to serve generations of students well into the 21st century.



## Admission, Financial Aid, Tuition, and Fees



# Admission, Financial Aid, Tuition, and Fees

## Admission to Plymouth State University

### Creating the Right Fit

The university admission process is really a series of choices. First, students decide where to apply. Then, the universities select an incoming class. Finally, students decide, from the schools where they have been accepted, which university to attend based on their individual needs. This third choice is key to one's success as a student.

When the Admission Committee reviews a student application, the key question committee members ask is, "Will this student succeed at Plymouth State University?" While many factors are considered in the admission process, a student's academic record is regarded as the best predictor of university grades. Therefore, the greatest emphasis is placed on previous courses taken and grades. Other important factors include recommendations, the admission essay, class standing, test scores, and activities. Also, personal experiences such as work, travel, or community service are considered in the decision process. Students are encouraged to include as much information as possible to assist the Admission Committee in making its best decisions.

### Interviews and Campus Tours

Interviews are not usually required. However, an interview may be requested if it is necessary in order for a student to make a proper decision.

A visit to the campus is very important for students prior to making a final decision about which institution to attend. It is the best way to learn about the University. Visits should be made during regular sessions when students and faculty are on campus (see Academic Calendar). Prior to visiting campus, applicants may also request a meeting with a professor who teaches a subject in which the student has an interest.

Tours conducted by student admission representatives are available Monday through Friday when the University is in regular session. Student tour guides are well prepared to answer questions on topics of concern to prospective students and their families. For more information about campus visits and tours, contact the Admission Office.

A series of admission information meetings is held on Saturday mornings in the fall. Open house events are held on selected dates during the academic year. For more information or to sign up for these sessions, contact the Admission Office.

### Admission Policy

Plymouth State University considers applications for both the fall and spring semesters. Deadlines for priority consideration: Completed applications should be received by April 1 for the

fall semester and December 1 for the spring semester. The Admission Office administers a rolling admission program, which provides applicants with prompt action on their request for admission.

New students must attend New Student Orientation in order to enroll for their first semester. Exceptions to this policy will be made only under extraordinary circumstances by appeal to the Admission Office.

To provide reliable assurance of the quality of the educational preparation of its applicants for admission, Plymouth State University supports the efforts of secondary school officials and governing bodies to have their schools achieve regional accreditation status.

### Admission Standards

#### *Reading Your Application:*

There is no single answer to the frequently asked question, "What grades and SAT scores do I need to be admitted to PSU?" However, most successful applicants present the following:

- Four years of English
- Three years of mathematics
- Three years of science
- Three years of social studies
- Two years of foreign language

Most students have taken at least Algebra I, Geometry, and Algebra II (or an equivalent sequence). Students who do not have the minimum mathematics background, but are otherwise qualified, will need to satisfy the mathematics proficiency requirements within the first 45 credits taken at PSU.

Although no minimum SAT score is required for admission, the combined critical reading and math score of most admitted students falls between 900 and 1100 (or a composite score between 19 and 24 on the ACT). While a student's academic record is most important, consideration also is given for character, leadership, initiative, and special talents.

In certain cases, the Senior Associate Director of Admission may require students to complete university-level courses with at least a 2.00 grade point average in addition to, or in lieu of, regular admission requirements.

### Application Requirements

Students often ask, "What do I need to send to the Admission Office when I apply to Plymouth State University?" The following information should answer the question for students entering PSU under a variety of circumstances. Students who

feel that special circumstances might affect how their application is reviewed are welcome to share that information with the Admission Office.

### First-Year Students

1. Completed application form and application fee (\$40 non-refundable)
2. An official secondary school transcript and evidence of secondary school graduation or a satisfactory secondary school equivalency certificate (GED). Work of high quality in a program that is well-balanced is very important. For more information concerning secondary school preparation, students should refer to the section of this catalog pertaining to the specific academic program.
3. SAT scores. Applicants are responsible for making arrangements to take the College Entrance Examination Board's SAT and for having the results forwarded to Plymouth State University. The SAT score reports should be sent to Plymouth State University directly from the College Entrance Examination Board in Princeton, NJ. Information as to time, place, and fees may be obtained from any high school guidance counselor or by writing the College Entrance Examination Board, PO Box 592, Princeton NJ 08549, or PO Box 1035, Berkeley CA 94701.
4. ACT scores are also accepted.
5. One recommendation (academic)
6. An essay using one of the two suggested topics
7. New Hampshire residents must complete and have a notarized statement regarding residency.
8. DD214 military record (if applicable)

### Transfer Students

1. Completed application form and application fee (\$40 non-refundable)
2. An official secondary school transcript with date of graduation or a satisfactory secondary school equivalency certificate (GED)
3. Official transcripts of all post-secondary work attempted. A minimum grade point average of 2.00 on a 4.00 scale is required for admission consideration. Credits earned with grades of C and above at regionally accredited degree-granting institutions may be considered for transfer at the time of admission to Plymouth State University. Academic work attempted, but not reported at the time of admission, will not be retroactively transferred after enrollment.
4. An essay using one of the two suggested topics
5. DD214 military record (if applicable)

### International Students

1. Completed application form and application fee (\$40 non-refundable)
2. An official secondary school transcript with date of graduation or a satisfactory secondary school equivalency certification, with English translations if appropriate
3. TOEFL (Test of English as a Foreign Language) results with a minimum score of 520 if paper-based, 190 if computer-based or attainment of level 112 from ELS, IELTS

(International English Language Testing System) with a minimum score of 5.5, or other evidence of ability to use and understand the English language must be submitted by students from non-English speaking countries. The University will accept an academic report from an ESL Center certifying successful completion of Level 109.

4. Declaration and Certification of Finances form
5. For international transfer students entering from a non-American institution, transfer credit must be evaluated by the Center for Educational Documentation, Inc., PO Box 231126, Boston MA 02123-1126, (617) 338-7171 (fax 617-338-7101), [cedevaluations.com](http://cedevaluations.com).

### Adult Learners

1. Completed application form and application fee (\$40 non-refundable)
2. An official secondary school transcript and evidence of secondary school graduation or a satisfactory secondary school equivalency certificate
3. At least one letter of recommendation from a present employer or someone who is in a position to comment on character and personal qualities
4. DD214 military record (if applicable)
5. Waivers. In certain circumstances, the Senior Associate Director of Admission can grant a waiver of regular admission requirements. For more information, the adult learner should contact the Senior Associate Director of Admission.

### Home-Schooled Students

1. Completed application form and application fee (\$40 non-refundable)
2. Admission essay
3. Outline of academic studies (may include reading lists, course syllabi, writing samples, or work portfolio)
4. SAT or ACT scores
5. Letter of recommendation
6. Satisfactory secondary school equivalency certificate or home school diploma if available

### Preliminary Mathematics Requirement for Students Admitted with Mathematics Deficiency

Students admitted to PSU without high school credit for Algebra I, Algebra II, and Geometry (or equivalent experiences) will be required to remedy that deficiency within the first 45 credits attempted. To remedy a mathematics deficiency, the student must complete one of the following:

- Successfully complete MA 1200
- Earn Level Two on the Mathematics Placement Exam.

Students who have not completed the preliminary mathematics requirement must continually enroll in courses that lead to the completion of this requirement until the requirement has been met.

Students admitted with mathematics deficiency who fail to complete the preliminary mathematics requirement within

the first 45 credits attempted will not be allowed to continue as matriculated students. These students will be allowed to take courses as part-time, non-matriculated Continuing Education students, and will be eligible to apply for readmission as matriculated students once they have fulfilled the preliminary mathematics requirement.

### Advanced Standing

Outstanding secondary school work is recognized by advanced placement and credit for enriched or accelerated courses. Students may qualify for credit by satisfactory achievement on PSU-approved placement exams, including the College Board Advanced Placement (AP) Test, the College Level Examination Program (CLEP) or DANTES. See Appendix for acceptable scores.

### New England Regional Student Program

Plymouth State University participates in a regional cooperative program administered by the New England Board of Higher Education. The Regional Student Program enables residents of New England to attend an out-of-state public college or university within New England at reduced tuition for certain degree programs that are not available within their own state's institutions and have been designated by PSU. To be eligible for the program, students must have declared an eligible major before the beginning of the semester in which they want New England Board of Higher Education status. There are no exceptions to this deadline.

Eligible PSU programs and states include the following:

- BA Humanities for Maine, Massachusetts
- BS Meteorology for Maine, Massachusetts, Rhode Island
- BS Public Management for Connecticut, Massachusetts, Rhode Island

The purpose of the program is to expand opportunities in higher education for New England residents by making available on an equal basis courses not commonly offered at every institution. This tends to reduce duplication of courses among institutions and utilize more efficiently the higher education facilities of each state. Information about this program may be obtained through the PSU Admission Office, any high school guidance counselor, or the New England Board of Higher Education, 45 Temple Place, Boston MA 02111, (617) 357-9620.

### Transfer Agreements

Agreements exist between Plymouth State University and the following institutions for specific bachelor programs, which facilitate the transfer of credit:

Community College of Rhode Island

*BS Accounting, Management, Marketing*

Dean College (MA)

*BS Physical Education*

Maricopa Community Colleges (AZ)

*General Education curriculum satisfies lower-division general education requirements*

Community College System of New Hampshire\*

Great Bay Community College, Stratham

*BS Art Education (K-12)*

*BS Biotechnology*

*BS Social Science/Social Studies Teacher Certification (5-12)*

Lakes Region Community College, Laconia

*BS Art Education (K-12)*

*BS Business Administration*

*BS Childhood Studies/Teacher Certification (K-8)*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

*BS Social Science/Social Studies Teacher Certification (5-12)*

Manchester Community College, Manchester

*BS Art Education (K-12)*

*BS Business Administration*

*BS Childhood Studies/Teacher Certification (K-8)*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

*BS Social Science/Social Studies Teacher Certification (5-12)*

Nashua Community College, Nashua

*BS Accounting, Management, Marketing*

*BS Childhood Studies/Teacher Certification (K-8)*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

*BS Information Technology*

*BS Social Science/Social Studies Teacher Certification (5-12)*

River Valley Community College, Claremont

*BS Childhood Studies/Teacher Certification (K-8)*

*BA Criminal Justice*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

*BS Social Science/Social Studies Teacher Certification (5-12)*

White Mountains Community College, Berlin

*BS Business Administration*

*BS Childhood Studies/Teacher Certification (K-8)*

*BA Criminal Justice*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

*BS Social Science/Social Studies Teacher Certification (5-12)*

New Hampshire Technical Institute, Concord\*

*BFA 2D Studio Art*

*BFA 3D Studio Art*

*BS Art Education*

*BS Childhood Studies/Teacher Certification (K-8)*

*BS Early Childhood Studies/Early Care and Education*

*BS Early Childhood Studies/Teacher Certification (K-3)*

- \* The AA in Liberal Arts at the Community College System of New Hampshire and the New Hampshire Technical Institute satisfies the lower-division general education requirements at PSU. Visit [NHTransfer.org](http://NHTransfer.org) for further details.

For current information, please contact the Director of Curriculum Support in the Undergraduate Studies Office.

## Readmission

Students who have matriculated at Plymouth State University but who have interrupted their enrollment must apply for readmission through the Admission Office. Regular application deadlines apply to readmission applicants. Students who have attended another college during their absence from PSU must submit an official college transcript.

## Residency

All students attending Plymouth State University are charged tuition at a rate to be determined by their domicile or residency. Those living within the state of New Hampshire are charged the in-state rate. Those living elsewhere will pay the out-of-state rate.

Students are classified as residents or non-residents for tuition purposes at the time of admission to the University. The residency decisions, made by the Office of Admission, are based on information furnished in the student's application and other relevant information.

All applicants living in New Hampshire are required to submit a notarized statement to the effect that they (if financially independent) or their parents (if financially dependent) have been legally domiciled in New Hampshire continuously for a period of at least 12 months immediately prior to registering for the term for which the student is claiming in-state status. If students maintain residency apart from that of their parents, they must clearly establish that they are financially independent and that their residence in New Hampshire is for some purpose other than the temporary one of obtaining an education at the University. To qualify for in-state status, independent students must have been legally domiciled in New Hampshire continuously for a period of at least 12 months prior to registering for the semester for which in-state status is claimed.

Students admitted from states other than New Hampshire or from foreign countries are considered non-resident throughout their attendance at the University unless they have acquired bona fide domicile in New Hampshire. The burden of proof in all cases of residence is upon the applicant. The University reserves the right to make the final decision concerning residency status for tuition purposes. Students applying for admission should contact the Office of Admission if they have questions regarding residency. Enrolled students should contact the Office of the Registrar.

## Establishing/Changing Residency

The residency status of undergraduate students is determined at the time of admission to Plymouth State University, and may be changed only by applying for reclassification. Undergraduate students who are currently enrolled may either obtain information from the Office of the Registrar or read the residency information posted in the Residency section of the Registrar's Web site: [plymouth.edu/registrar/residency](http://plymouth.edu/registrar/residency).

Applications for reclassification for a fall semester are due no later than September 1 of the semester. Applications for a spring semester are due no later than January 1 prior to the beginning of the semester.

If the student is successful in his or her application for reclassification, the change will be effective at the beginning of the semester. Reclassifications do not occur mid-semester.

## Financial Aid

Financial Aid is intended to assist qualified students who need assistance in meeting their educational expenses. Plymouth State University views financial aid as an investment in PSU students' futures. The major objective is to ensure access to those who may lack the financial resources to pursue a degree.

Programs administered by the Financial Aid Team include the University's scholarship, grant, and employment programs, and the Federal campus-based programs (Federal Supplemental Educational Grants [SEOG], Federal Perkins Loans, and Federal Work Study). In addition, the Financial Aid Office certifies eligibility and administers other awards, such as Federal PELL Grants, Federal Academic Competitiveness Grants (ACG), National Science and Mathematics Access to Retain Talent (SMART) and TEACH Grants, state scholarships and grants, Federal Stafford Loans, Federal PLUS loans, private loans, and external scholarships. More information is available online at [plymouth.edu/finaid](http://plymouth.edu/finaid).

Financial aid applications are processed at Plymouth State University upon receipt of the information from the federal processor as a result of students filing the Free Application for Federal Student Aid (FAFSA). Students must be accepted to a degree or certificate program at PSU before financial aid can be awarded; however, the FAFSA should be submitted prior to official acceptance to PSU, as the priority deadline for filing for aid is **March 1**.

## Application Process

To be considered for financial aid, applicants complete the FAFSA for federal, state, and University aid. The FAFSA cannot be completed before January 1 to ensure accuracy of the previous year's income tax data, which is needed for aid determination. If possible, federal tax returns should be completed prior to filing the FAFSA. Families may provide *estimated* income to meet filing deadlines and update information later. Signed copies of parent(s) and student federal income tax returns (1040/1040A/1040EZ/1040TEL), W2 forms or non-tax filer forms should only be submitted **upon University request**, and final determination of aid eligibility will not be possible without required documentation.

Financial aid information is included in the PSU Student Handbook and in greater detail at [plymouth.edu/finaid](http://plymouth.edu/finaid).

## Priority Filing Date

Plymouth's priority filing date is **March 1** for the FAFSA or Renewal FAFSA to be received by the processor. All applicants should adhere to the March 1 priority filing date, or they will be considered late and will only receive award consideration pending availability of funds. Families *may use estimated income to meet filing deadlines* and update information later. Normally only Federal PELL, ACG, SMART and TEACH Grants, Federal Stafford Loans, and state scholarships or grants are available for **late** student applicants. Parents may also apply for optional Federal Parent Plus Loans.

## Satisfactory Progress

The Education Amendments of 1976 require that institutions limit federal financial assistance to only those students who, according to institutional standards, are in good standing and making satisfactory progress. At Plymouth State University, students must be in good academic standing and be making satisfactory academic progress in order to be eligible for financial assistance. Good academic standing (qualitative progress) is defined in the Academic Warning, Probation, and Severance section of this catalog.

All degree candidates must maintain academic standing consistent with PSU's graduation requirements, which is based on a graduated scale with a 2.0 cumulative grade point average required for graduation. Continuing students' quantitative progress (earned credits) is reviewed once a year prior to the award/dispbursement of financial aid for the next academic year. Readmitted students' quantitative progress is reviewed at the point of re-entry. The following chart determines satisfactory progress:

### Standards for Satisfactory Progress (for Federal Aid)

#### Full-time Undergraduate Students Baccalaureate Degree

Number of Years Enrolled	Minimum Credits Required	Cumulative Credits Required
1	15	15
2	18	33
3	24	57
4	24	81
5	24	105

To graduate in four years (eight semesters), bachelor's degree students must complete an average of 15–15.50 credit hours per semester for eight semesters. PSU expects that full-time students are capable of earning more credits in succeeding semesters. For example, the following minimums are expected:

- 1st semester 6 credits
- 2nd–4th semester 9 credits
- 5th–11th semester 12 credits

Summer and Winterim session credits are included in the annual minimums. Less than full-time enrollment periods are considered on a pro-rata basis. For an undergraduate program (associate or bachelor's degree), the maximum time frame for eligibility may not exceed 150 percent of the published length of the educational program (bachelor's: six years). Courses

transferred from other institutions during the period of matriculation at PSU are included in the number of credits earned. Minimums for transfer students are based on the number of credits transferred from a prior institution(s) or the number of semesters/years if it is beneficial to the student's progress.

Incomplete, withdrawn, or repeated courses are appropriately counted as indicated on the student's academic transcript in determining the number of credits earned.

Students who are not successfully completing courses at the minimum levels are not considered to be making satisfactory academic progress and will not receive further financial aid until satisfactory progress status is achieved.

Students will receive communication from the Financial Aid Committee regarding their non-eligibility status. If the ineligible student does not appeal, reinstatement for financial aid consideration will occur when the student attains the necessary credits as indicated on the Standards for Satisfactory Progress chart, by earning credits above the semester minimums and/or attending a summer or Winterim session(s), and has filed all appropriate forms.

If students feel there have been mitigating circumstances that have prevented satisfactory progress, they can present a letter of appeal to the Financial Aid Committee for review. At the time of review, students are either allowed to continue federal financial aid eligibility (normally based on mitigating circumstances) or not allowed to continue receiving financial aid. If the student's appeal is denied, the student will be advised as to how eligibility may be restored. Failure to regain satisfactory progress status will result in the loss of all federal, state, and PSU aid, including grants, scholarships, loans, and work-study employment, until the student has met required guidelines.

## Tuition and Fees 2009–2010 (Estimates)

Important Note: All the rates listed below are **estimates** and are subject to change. Final rates will not be determined until early July after approval by the Board of Trustees.

### Undergraduate Tuition

	COST PER ACADEMIC YEAR		
	Resident	Non-Resident	New England Regional Program
Fall/Spring (full-time)*	\$6,930	\$15,170	\$12,128
	COST PER CREDIT HOUR		
	Resident	Non-Resident	New England Regional Program
Fall/Spring (part-time)	\$289	\$632	\$506
Summer 2009 Session	\$276	\$304	N/A
Winterim 2010 Session	\$289	\$318	N/A

\* Full-time tuition is billed as a flat fee for 12–17 credits.



### Mandatory Fees

The mandatory fees provide funds for services and facilities such as the student center, the physical education complex, student health services, and student activities and organizations. The fees also fund technical equipment such as computer clusters, language labs, and art facilities. All students are required to pay the mandatory fees.

	Resident/Non-Resident/ NE Regional
Full-time Undergraduate (per year)	\$1,854
Part-time Undergraduate (per credit)	\$80
Summer 2009 Session (per credit)	\$32
Winterim 2010 Session (per credit)	\$33

### Other Fees

	Resident/Non-Resident/ NE Regional
Application Fee (non-refundable)	\$40
Identification Card	\$15
Late Registration/Reactivation	
Fees (per transaction)	\$25-100
Tuition Bill Interest Late Fee (monthly)	1.5% of balance

#### *For Frost School Admits Only:*

Enrollment/Orientation Fee (non-refundable)	\$108
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#### *For New Admits Only:*

Enrollment/Orientation Fee (non-refundable)	\$188
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#### *For Re-Admits Only:*

Enrollment Fee (non-refundable)	\$83
Re-admission Fee (non-refundable)	\$20

#### *Examining Out of Student Teaching (per semester)*

Resident	\$1,732.50
Non-Resident	\$3,792.50

### Overload Fees

Undergraduate students taking more than 17 credits are assessed a per credit overload fee based on tuition status and residency. Students are required to sign an overload form acknowledging the extra fee at the time they register for the overload. A student who registers for more than 17 credits, or one who enrolls after the closing date of the add period, is subject to an overload charge, regardless of whether the student drops a course after that date.

	Resident	Non-Resident	NE Regional
Overload Fee	\$289	\$632	\$506

**Music Ensemble and Theatre Performance Overload.** Students who have registered for a music ensemble course (e.g., The Music Theatre Company, University Chorale, etc.) once, for one credit hour; or a theatre performance/production (e.g., Practicum in Production), may request a waiver of the over-

load fee on the occasion of subsequent enrollments in the same course. Appeals must be made to the Chair of the Music, Theatre, and Dance Department.

### Special Course Fee

Some courses are assessed special fees to help cover additional costs above the standard classroom instruction expenses. These courses are typically related to Performance Studies, Practicum and Internships, Adventure Education courses, Art studio courses, and field study courses. These courses are annotated with a dollar sign (\$) in course scheduling publications.

### Room and Board 2009-2010 (Estimates)

On-Campus Housing	Costs per Academic Year
Single/Mary Lyon single	\$7,390/\$7,930
Double/Mary Lyon double	\$5,996/\$6,640
Triple/Mary Lyon triple	\$4,870/\$5,820
Mary Lyon Quad	\$5,820
Hotel Style: Single	\$8,460
Hotel Style: Double	\$6,700
Suite Style: Single	\$7,890
Undergraduate Apartment	\$6,870
Non-traditional Student Apartments:	
1 bedroom: 1 person/2 people	\$9,890/\$6,870
2 bedrooms	\$8,330

### Meal Plans

75 Block + \$250 Flex Cash/3 guest passes	\$1,790
105 Block + \$150 Flex Cash/3 guest passes	\$2,070
150 Block + \$150 Flex Cash/6 guest passes	\$2,598
210 Block + \$200 Flex Cash/6 guest passes	\$2,834
Ultimate Plan+ \$200 Flex Cash/9 guest passes	\$3,138

*Rare circumstances could force the University to adjust charges during the academic year. Such changes will be announced as far in advance as possible.*

### Status for Billing Purposes

Full-time tuition and fees are charged as a flat fee to all undergraduate students identified as full-time at the time of admission (see costs above). Full-time undergraduate students must have at least the equivalent of 12 credits for full financial aid consideration. Students who wish to voluntarily change to part-time must file for a Change of Status in the Office of the Vice President for Student Affairs within five working days of the start of classes.

Part-time tuition and fees are charged per credit hour to all undergraduate students identified as part-time at the time of admission. Matriculated (degree-seeking) students in good academic standing who want to change from part-time to full-time status must submit their request in writing to the Registrar before the end of the course add period. A change to part-time status may impact students' eligibility for financial assistance, on-campus housing, intercollegiate athletics, and insurability by certain insurance carriers.

## Senior Citizen Free Tuition Policy

New Hampshire residents who are 65 years of age and older are eligible for one tuition scholarship per semester for most credit courses, including graduate courses. The policy guidelines are as follows:

- One scholarship per term
- Applies to one course (up to three credits)
- Not applicable to students admitted to a degree program
- Covers only tuition (not fees)

## Statement of Financial Responsibility

By enrolling in classes at Plymouth State University, students accept full responsibility for their tuition bill account, regardless of who is helping to pay the bill, and they agree to pay all charges incurred by their stated due dates. Students also acknowledge that interest late fees will be assessed monthly for overdue balances, and collection costs may be added to their account if the services of a collection agency are employed.

Since students are assuming full responsibility for their tuition bill account, they must also accept responsibility for reviewing their plymouth.edu e-mail account, because this is the e-mail address to which all billing notifications are sent.

## Important Note about Tuition Bill Accounts

Each student enrolled at Plymouth State University is assigned a tuition bill account in his/her name. The student is responsible for all the charges and payments that occur on it. In order to maintain compliance with the Family Educational Rights and Privacy Act (FERPA), online access to the tuition bill account is restricted to the student only.

Notes about the treatment of non-financial aid payments:

- Personal payments made by individuals (e.g., parents, guardians, relatives, etc.) on behalf of the student are considered gifts to the student, and any resulting overpayments (if applicable) will be issued to the student.
- Payments received on company/business checks will be treated as external scholarships or outside scholarships to the student and will be reported annually as such on IRS Form 1098T.

## A Partnership with Parents

Since many students rely on the help of their parent(s)/guardian(s) to pay their bill, it is important for students and parent(s)/guardian(s) to form an active partnership. In order to assist our students and facilitate this partnership, PSU has made available two ways in which the student can accomplish this:

- 1) Students can add up to two parent/guardian e-mail addresses to their myPlymouth profile so the parent(s)/guardian(s) may receive a copy of the general billing notifications that are sent to them. Instructions on doing so can be found on the Bursar's Office Web page under "Financial Responsibility."
- 2) Students may complete the Family Educational Rights and Privacy Act (FERPA) Authorization Form, thereby giving

the PSU Bursar's Office permission to discuss the details of their bill via phone or in-person with the person(s) listed on the form. This form can be found on the Bursar's Office Web page under "Student Forms."

## Paying Tuition and Fees

Before each fall and spring semester, registered students are billed for tuition and fees according to the following schedule. Tuition bills can be accessed online via the myPlymouth portal. An e-mail notification is sent to all students via their plymouth.edu e-mail account when tuition bills are ready for viewing. The e-mail message states the exact payment due date and provides detailed instructions on accessing the online bill.

Semester	Bills Available Online	Payment Due Date
Fall 2009	July 10, 2009	August 7, 2009
Spring 2010	November 6, 2009	December 4, 2009

Although tuition and mandatory fees are assessed and listed only for students who are registered, the University expects all returning students to pay their bill by the due date. This means that non-registered students must estimate their bill before making payment.

Students who fail to pay their bill by the due date will be assessed a 1.5 percent interest late fee. Additionally, failure to pay their bill on time results in their courses being dropped for non-payment.

*Note:* Payment is due upon registration for the Winterim and Summer Sessions.

## Methods of Payment

Tuition bills can be paid online via e-check. They can also be paid by financial aid funds, cash, paper check, or credit card (via third-party vendor).

- **Financial Aid.** Students must be matriculated (degree-seeking) and taking at least six credits to be eligible for financial aid. For more information, contact the Financial Aid Office at (603) 535-2338 or toll-free (877) 846-5755, or visit the Financial Aid Web site at [plymouth.edu/finaid](http://plymouth.edu/finaid). *Note:* Guaranteed financial aid will "memo" on the online bill as an "expected payment."
- **Payment Plan.** Through our third-party vendor, Sallie Mae, the Bursar's Office offers a 10-month interest-free payment plan. The only cost to the student for using this plan is a \$60 enrollment fee. Here is a quick breakdown of the program:



<b>Enrollment Deadline</b>	<b>July 15</b> (for annual or fall-only plan) OR <b>November 15</b> (for spring-only plan)
<b>Enrollment Cost</b>	\$60 (for annual plan or for each semester-only plan)
<b>Fall Payments due to Sallie Mae</b>	July 1 August 1 September 1 October 1 November 1
<b>Spring Payments due to Sallie Mae</b>	December 1 January 1 February 1 March 1 April 1
<b>Payment sent to PSU</b>	All payments are forwarded to PSU one month after you make the payment to Sallie Mae.

*Note:* Payment plan contracts may need to be set up initially based on estimated costs and then be adjusted in early July and November when tuition bills are available online. These contracts will “memo” on the online bill as “expected payments.” For more information about this program, please visit the Bursar’s Office Web site at [plymouth.edu/bursar](http://plymouth.edu/bursar).

- **Online E–Check Payments.** Students can pay their bill online by clicking the Pay Now button located on their online bill. Students also can set up authorized third-party payers for their account. For more information about this payment option, please visit the Bursar’s Office Web site.

#### Out-of-Pocket Payments

- **Credit Card.** For full-time and part-time matriculated (degree-seeking) students: American Express, Discover, or MasterCard payments may be made through Sallie Mae’s TuitionPay Express Plan, a third-party vendor, by calling (800) 762-8370. You will be charged a percentage-based convenience fee for using this payment method.
- **Check.** Payment may be made with a personal check, cashier’s check, or money order. Include the student ID number on the payment to ensure that it is accurately posted to the student’s account. If students fail to provide their student ID number, a University staff member will write it on the payment for the student. Checks should be made payable to Plymouth State University.
- **Cash.** Payment may be made with cash in person at the Bursar’s Office.

#### Third-Party Payments

- **External (non–PSU) Scholarships/Awards:** If students have received an external scholarship/award, they must submit a

copy of their award letter to the Bursar’s Office. When sending their award letter, the following information must be included: student ID number, award amount to be paid and for which semester, and the awarding organization’s name and address. In order for the award to be considered as an authorized payment on the tuition bill account, *the award must NOT be contingent upon grades, grade point average, or any other criteria* prior to it being paid to PSU. If contingencies on the award exist, it can not count as an anticipated payment toward the student’s bill, and the student will need to pay this award amount through some other means. If the student later meets the required criteria and the award payment comes in, the student can be reimbursed for the overpayment.

- **Purchase Orders and/or Government Authorizations.** If the student’s tuition is to be paid by an employer, a government agency, or any such third-party company, the student must submit a letter of authorization or a purchase order to the Bursar’s Office from their third-party payer. In order for this type of payment agreement to be considered an authorized payment on the tuition bill account, *payment must NOT be contingent upon grades, grade point average, or any other criteria.* Students must make sure their third-party authorization/purchase order (PO) includes their name, their student ID number, the maximum billing amount, and the third-party company’s name and address. If students fail to include any of this information, their authorization/PO will not be accepted, and they will be required to pay their bill out-of-pocket. If all the necessary information is provided, the Bursar’s Office will invoice the third-party company for the authorized amount. Please note that if the company or agency has a policy to reimburse students for their course(s), students will be responsible for making the tuition payment themselves.

#### How to Contact the Bursar’s Office

For the answer to questions regarding student bills, payments or refunds, visit the Bursar’s Web site at [plymouth.edu/bursar](http://plymouth.edu/bursar) or contact the Bursar’s Office:

- Telephone: (603) 535-2215 or toll-free (877) 846-5755
- e-mail: [bursar@plymouth.edu](mailto:bursar@plymouth.edu). Include the student ID in the message

*Please note that the Federal Educational Records and Privacy Act (FERPA) restricts the Bursar’s Office from discussing a student’s bill without the student’s consent.* FERPA Authorization forms are available on the Bursar’s Office Web site.

#### Refunds

##### Deposit Payment Refunds

If a student withdraws voluntarily by sending written notification to the Admission Office, tuition and room deposit payments will be refunded according to the following schedule:

Notification Deadline	Refund Percentage
<i>Fall Admission:</i>	
On or before April 30	100 percent
On or after May 1	zero percent
<i>Spring Admission prior to January 1:</i>	
On or before January 1	100 percent
On or after January 2	zero percent
<i>Spring Admission on or after January 1:</i>	
Before 7th day prior to start of term	100 percent
On or after 7th day prior to start of term	zero percent

### Refunds of Charges

Refunds of tuition, mandatory fees, course fees, and overload fees will be made according to the applicable schedule below. Please note that late fees and course fees for academic trips are non-refundable.

If a course is cancelled for a part-time student, 100 percent of all course related tuition and fees will be refunded.

### Course Drop/Withdrawal Refund Policy

The schedule below applies to **part-time students** who drop a course but will ultimately remain a registered student.

Date	Refund Percentage
<i>Full semester, first half, or first quarter courses:</i>	
• Student drops a course on or before the end of the Add/Drop period	100 percent
• Student withdraws from a course after the end of the Add/Drop period, but on or before the 30th day after Registration Day	50 percent
• Student withdraws from a course after the 30th day after Registration Day	0 percent
<i>Second half or fourth quarter courses:</i>	
• Student drops a course on or before the end of the Add/Drop period for second half or fourth quarter courses ends	100 percent
• Student withdraws from a course after the end of the Add/Drop period but on or before the 30th day after Registration Day	50 percent
• Student withdraws from a course after the 30th day after Registration Day	0 percent

### Refunds of Overpayments

Need to buy books? If yes, contact the Bursar's Office to request a FlexCash purchase from your tuition bill credit balance for use at the PSU Bookstore.

Refund checks are issued the day following the end of the Add/Drop period, if all three criteria are met:

- Your account is overpaid by actual payments received (and not by expected payments listed under 'Memos' on your online bill);
- You are a full-time student registered for at least 12 credits, OR  
You are a part-time student without financial aid or a part-time student with financial aid and you are registered for at least the same number of credits as stated in your financial aid award message; and
- You do not incur any additional charges during the Add/Drop period.

Hint: To avoid any delays in the issuance of your refund, be sure to make your FlexCash tuition bill purchase, course schedule, room, and meal changes prior to your arrival on campus.

Note: Refunds that are federally required to be issued to the parent borrower will be mailed out the third week of the term.

### Student Withdrawal Refund Policy

All students, including non-matriculated (non-degree) students, who drop or withdraw from **all** of their courses, will receive refunds according to the schedule below.

Date	Refund Percentage
• Student withdraws from PSU before the first day of classes	100 percent
• Student withdraws from PSU on or after the first day of classes, but on or before the second Friday of the term	75 percent
• Student withdraws from PSU after the second Friday of the term, but on or before the 30th day after Registration Day	50 percent
• Student withdraws from PSU after the 30th day after Registration Day	0 percent

### Student Withdrawal and Return of Federal Title IV Financial Aid

If a student withdraws before completing 60 percent of the semester and has received any federal financial aid (Federal Stafford Loan, Federal Perkins Loan, Federal PLUS, Federal Pell, ACG, SMART or TEACH Grants, or Federal Supplemental Opportunity Grant), a portion of the awarded federal aid must be returned. The determination of the amount to be returned is calculated by the Financial Aid Office within 30 days from the date of notification of the withdrawal. This calculation may result in a student owing monies to the University and/or the Federal Title IV Programs.

### Appeals

Appeals of the refund policies may be submitted to Richard Hage, Vice President for Student Affairs, Plymouth State University, MSC 4, 17 High Street, Plymouth NH 03264-1595.

## Student Life



## Student Life

While the classroom experience is the primary focus for a student's academic growth, experiences outside the classroom are an important part of university life as well. At Plymouth State University, our students have the opportunity to expand their horizons through activities that support and enhance academic endeavors. The Student Affairs Division provides opportunities for students to develop their talents, explore new interests, and discover or exercise their leadership abilities. The following brief descriptions give an overview of student life at PSU. More information on all the programs and services within the Student Affairs Division is available at [plymouth.edu/stuaff/](http://plymouth.edu/stuaff/).

### Alumni Association

The Office of Alumni Relations and the PSU Alumni Association extend a warm welcome to our future alumni. As students and alumni you can take advantage of a variety of services and opportunities including a lifetime PSU e-mail address; Web-based career management tools; professional networking events, programs, and volunteer opportunities; discounts on merchandise and service from dozens of top companies; Plymouth Connections, a Web-based professional network of Plymouth State University alumni; Plymouth Alumni Monthly, the official e-newsletter of PSU alumni; and access to the online alumni community in myPlymouth. For additional information about upcoming events or how to get involved, contact the Office of Alumni Relations at (603) 535-2589 or visit [plymouth.edu/alumni](http://plymouth.edu/alumni).

### Athletics

Plymouth State University's Department of Athletics includes 19 men's and women's teams plus Athletic Training. As a member of the NCAA Division III, the Panthers consistently compete in national and regional championship tournaments.

PSU recognizes that athletics has much to offer the University community. The Panther sports programs afford students the opportunity to develop physically, emotionally, intellectually, and socially, while giving students many reasons to be proud of PSU and stimulating school spirit. PSU maintains a special perspective with regard to sports and intercollegiate competition. The "Home of the Panthers" provides valuable "laboratory" experiences to hundreds of young men and women who have gone on to coaching and other athletic-related careers throughout New England and beyond. For more information, see the Athletics Web site at <http://athletics.plymouth.edu>.

### Satisfactory Progress Guidelines

Plymouth State University places a high priority on our student-athletes making satisfactory progress toward the completion of their undergraduate degree. Our goal is that involvement in Athletics helps to ensure that students are on track to graduate. In support of this goal, the Athletic Department has established the following practice:

- A review of all student-athlete grades will be conducted by the Compliance Officer prior to their third year of participation (once a student has been officially charged with two years of eligibility). For winter student-athletes, this review will occur prior to participation in the fall and at the mid-semester break. Winterim classes may be used to improve the student-athlete's grade point average (GPA).
- Transfer students, who have never attended Plymouth State University, will have the determination of their GPA based solely on their academic work at PSU. Students who have attended Plymouth State, transferred out and then back to PSU, will have their GPA reviewed on a case-by-case basis.
- At the conclusion of the review outlined above, students who do not have a minimum 2.00 GPA, or who are deemed to not be making satisfactory progress, will lose their opportunity to participate in athletics.

### Counseling and Human Relations Center

The Counseling and Human Relations Center is staffed by professional counselors, psychologists, and clinical social workers. Free, confidential services are offered to all PSU students during the fall and spring semesters, Winterim, and for four weeks in July. These services are directed toward helping students with life issues such as stress, anxiety, family and relationship issues, grief, depression, self-esteem, drugs, and alcohol. Both individual and group counseling are offered. The staff is more than happy to present programs in classes, residence halls, and apartments, or in support of academic departments and programs; simply call or stop by to arrange a presentation on a specific topic. The center is home to the Jim Hagedorn Memorial Library/Reading Room, where students are encouraged to stop in to read a good book or simply relax and get away from the stress and demands of their everyday world. Counseling Center hours during fall and spring semesters and Winterim are Monday through Friday, 8 a.m.–4:30 p.m., with additional evening appointment hours on Tuesdays until 7 p.m. Call (603) 535-2461 for an appointment.

### Dining Services

Dining services at PSU are coordinated by the Department of Residential Life and are provided by a private contractor that manages all food services on campus: Prospect Dining Hall, the Mountain View Snack Bar, the Sidewalk Café, Langdon Woods, Lamson Library and Learning Commons, campus vending, and catering. The dining program includes many innovative features, such as express take-out meals, a self-serve salad bar, pizza station, pasta bar, various main entrées at all meals, and a wide variety of beverages and desserts. A variety of meal plans are offered (see Fees), all of which include "flex cash" that can be spent to purchase food, snacks, or beverages at any of the food service facilities. The Student Senate works closely with the dining management to continuously evaluate menu items and the overall program.

## Health Services

Health care is available to all full- and part-time students during regular academic semesters. Inpatient and outpatient services are available during the day in the Baker Health Services, located at 16 Merrill Street in Hogan House. Students have access to a University physician or nurse practitioner during scheduled clinic hours, Monday through Friday. An orthopedic and sports-related injuries clinic is held on Tuesday and Thursday mornings from 7 a.m.-8:30 a.m. A nurse is on duty whenever the facility is open. To contact Health Services, call (603) 535-2350 or fax (603) 535-3291. Other services include:

- Allergy immunizations: Health Services will store vaccines for students and administer allergy injections.
- The Cold Clinic provides prevention-oriented information and education from registered nurses to students with the “common cold.”
- Medical Clinic: A health care provider sees, without charge, students who are ill. Students are encouraged to schedule appointments to ensure adequate treatment.
- The Reproductive Health Clinic offers a full range of women’s health services including contraception information and counseling, testing, and physical exams. Reproductive health clinics are scheduled daily.

## International Student Services

The mission of International Student Services (ISS) is to promote the globalization of the University and foster cultural exchanges between students, faculty, staff, and the community. ISS is coordinated by the Dean of Student Affairs Office and is the first place to come for information on any non-academic matter affecting international students. The major purpose of ISS is to assist international students with visa and immigration issues while they are attending PSU. ISS also provides orientation and is a source of information and a point of referral to support our international students’ needs.

## Physical Education Center

The Physical Education Center is located on Holderness Road, between the Pemigewasset River and Interstate 93. The PE Center includes the 2,000-seat Foley Gymnasium, racquetball courts, Vilas Performance Center, Olympic-size swimming pool, indoor track, indoor and outdoor tennis courts, wrestling room, athletic training and rehabilitation facilities, classrooms, and Department of Athletics offices, as well as 50 acres of outdoor playing and practice fields. Equipment may be signed out with a student ID at the main office. PE Center hours are posted at the PE Center and on the Web at [plymouth.edu/pecenter](http://plymouth.edu/pecenter).

## Prevention and Intervention Programs

In addition to wellness promotion, Plymouth State has many prevention and intervention programs focused on physical and social problems such as alcohol and drug abuse, campus crime, sexual assault, sexual health, AIDS, racism, sexism, and homophobia. As required by the federal government, the University publishes and distributes information on the first three of these issues to students, faculty, and staff. This informa-

tion is available on the PSU Web site, in the Student Handbook section. Referral information can be obtained at the Wellness Center, (603) 535-2853.

## Recreation Programs

Recreation Programs provide numerous opportunities for students to participate in a wide variety of recreation programs at various competition levels. These opportunities include intramural sports, sport clubs, group exercise, and special events like the Foley Foot Race and Spring Fling. Informal recreation opportunities exist in our fitness area, the Cardio Theater, and the HUB Courtroom, where students will often find a pick-up basketball or volleyball game, or sometimes a unique function or special event. Our fitness area is equipped with selectorized weight machines as well as free weights to accommodate a variety of training programs. The Cardio Theater provides the latest in cardiovascular training equipment and fitness systems such as treadmills, elliptical machines, bicycles, and stair steppers that can be used while watching TV. In addition, equipment available for rent includes cruiser bicycles, snow shoes, and cross country skis.

Beside the variety of intramural sports and group exercise classes offered during the week, Recreation Programs offers the following sport clubs:

- Boxing
- Dodgeball
- Gymnastics
- Outing Club
- Men’s Rugby
- Women’s Rugby
- Snowboarding/Skateboarding
- Men’s Volleyball

Additional information on all of the programs can be found at [plymouth.edu/recprograms](http://plymouth.edu/recprograms) or by calling the Recreation Programs Office at (603) 535-2956.

## Reflection and Spiritual Care Center

The Reflection and Spiritual Care Center houses the offices of Campus Ministry and was created for whole community ministry. It is a place to come in, take a deep breath, and relax in our meditation room, or check out a book on any spiritual subject in our library. The Center and its staff are open to and respectful of all people of faiths. Have a faith-based group you want to start? We have a quiet space for you to meet.

Campus Ministry is a service to the Plymouth State University community provided by the local churches. PSU has three campus ministries: Protestant (interfaith), Catholic, and Evangelical. They provide spiritual, social, and service activities to people from all walks of life and faiths. They offer sources of discussion and counseling, encouraging students, faculty, and staff to think about faith and spirituality in personal, academic, and social ways. The campus ministries also participate in many aspects of campus life.

The Reflection and Spiritual Care Center is located at the rear of Samuel Reed Hall, on Highland Street, opposite Lamson Library. For more information, contact: Catholic Campus Ministry, (603) 535-2673; Chi Alpha Ministry (Evangelical), (603) 254-8552; United Campus Ministry, (603) 535-2327. The Web site is [plymouth.edu/campmin/](http://plymouth.edu/campmin/).

## Residential Life

In a residential university community, students develop many lifelong relationships. The opportunity to meet and befriend fellow students with diverse personalities, backgrounds, and values helps to develop skills necessary for success in our global community. Residence Hall Directors are professionals in the field of student development; they live in and manage each residential area with the aid of paraprofessional student staff (community advisors). They are committed to fostering an environment that encourages students to develop traits that will lead to a better life.

All first and second year students are required to live in University residence halls or apartments if space is available. Release from this requirement must be obtained in writing from the Department of Residential Life and is generally only granted to students who are commuting from the primary residence of their immediate family that is within a 50-mile radius of the campus.

Room deposits need to be postmarked by **May 1** to guarantee on-campus housing. Use of student preference, seniority, and date of deposit may be used in completing assignments at the University's sole discretion. Room assignments will be made available online through the Residential Life Web site at [plymouth.edu/reslife](http://plymouth.edu/reslife).

All residence halls are smoke-free. Co-ed and single-gender floors are available, as are apartments for students who have accumulated 45 credits or are 20 years of age by specific timelines. On-campus housing options range from traditional residence halls to suite style housing and two- and four-person apartment units that are fully furnished and include a full kitchen and a private bath.

## SAGE Center

The SAGE (Sexuality, Anti-Violence, and Gender Equity) Center is comprised of three core components:

- Women and gender equity resources and programming
- Anti-violence resources and programming
- Sexual health, safety, and sexuality resources and programming

**Mission Statement:** Promote a supportive, equitable, and safe environment for women and LGBTQ students while creating opportunities for both women and men to engage in the creation of this climate. To accomplish this, the center will:

- Engage both women and men in sexuality, gender equity, and anti-violence work.

- Provide, coordinate, and participate in comprehensive risk reduction programs and services for survivors of sexual assault, dating violence, sexual harassment, and stalking.
- Provide students with information and support around sexual health and safety.
- Sponsor speakers, performers, events, and activities that address sexuality, gender equity, and anti-violence.
- Educate students on the ways in which gender is constructed and shapes social structures and individual experiences.
- Educate students on the issues that disproportionately affect women and LGBTQ students.
- Assess the campus climate to ensure inclusiveness and equity for both women and LGBTQ students.
- Advocate for the diverse needs of both women and LGBTQ students.
- Empower students to create a campus culture that values women's and LGBTQ students' diverse identities and experiences.

## Student Activities

### Hartman Union Building

The Hartman Union Building (the HUB) is the center for student activities, student organizations, recreation programs, and student-organized special events both on and off campus. The HUB houses the following departments, programs and services:

- ATM
- University Bookstore: sells textbooks, supplies, and PSU apparel
- Community Service Center: responsible for coordination of community service programs
- Computer cluster: 16 computers available for student use as well as wireless Internet access for PSU community members throughout the building
- ID Center/Print shop: student IDs and copying services
- Mail Center: full-service post office as well as mailboxes for all students and organizations
- Recreation Program: see above
- Sidewalk Café and Snack Bar: dining venues that accept "flex cash"
- Student Activities Office: advisors to PACE and student government
- Student Media: the campus newspaper (*The Clock*), yearbook (*Conning Tower*), radio station (WPCR), and PSU Poets and Writers (*Centripetal* literary magazine)
- Student Government: office of the Student Senate, class officers, and Student Body President and Vice-President
- Wellness Center: see Wellness Programs

Additionally, the HUB provides meeting and activity space for the campus community and office space for some of our 80-plus student organizations. Volunteer involvement in student organizations allows students to pursue their interests and develop friendships as well as leadership skills.



## University Police

The Plymouth State University Police Department is committed to promoting and maintaining a safe and secure campus environment so that our students, their families, faculty and staff, guests, and visitors feel comfortable and enjoy the time they spend at Plymouth State University. The department is committed to values of respect, compassion, fairness, quality service, problem solving, and continual improvement.

University Police employs full-time and part-time certified police officers who have graduated from academy training programs conducted by the NH Police Standards and Training Council. Officers attend annual in-service training and other job-related continuing education throughout the year to maintain their state certifications. Although they receive their police authority from and have concurrent jurisdiction within the towns of Plymouth and Holderness, PSU officers are responsible for all law enforcement services on the PSU campus. In addition to their primary focus of the PSU campus and off-campus properties owned by the University, PSU officers support and assist our two host towns. In direct radio contact with the Plymouth Dispatch Center at all times, University Police are able to summon additional police, fire, or EMS professionals to maintain public order and safety.

University Police also employs a full-time parking enforcement officer and several part-time campus safety student officers. Student officers provide an enhanced visible presence to the University community that assists with crime prevention and detection, and contribute to a safer campus environment by conducting foot patrols and checks of campus buildings and property, enforcing University parking regulations, traffic control, and assisting with event management.

Other services offered include the following:

- Victim Services Program for female victims of violent crime
- RAD (Rape Aggression Defense) training
- Silent Witness (for confidential crime reporting)
- Courtesy transports within immediate campus area
- Medical transports in non-emergency situations
- Laptop registration
- Motorist assistance

## Wellness Programs

Plymouth State University is committed to promoting whole-person wellness, including intellectual, physical, mental, social, emotional, occupational, and spiritual development for students, faculty, and staff. Our commitment to wellness and human development stems from our values: respect for teaching, learning, and scholarship; respect for the persons and property of others; and respect and care for our environment and the earth we all share. The University's wellness programs include the following:

- Annual Wellness Fair run by the academic Health Education program
- Natural Highs Week coordinated by the Wellness Center
- Campus-wide Whole Health Team
- Life Educators, a peer-education group that leads programs in wellness and life skills
- Fitness program run by the Hartman Union
- One-to-one and group consultations
- Love Your Body Week, a week of programs about body image and eating disorders, coordinated by the academic Health Education program
- The Wellness Center, located in Hartman Union Building.





## Academic Resources



# Academic Resources

## Academic Advising

### Advisors

All matriculated students have an academic advisor. Students have the right to choose their advisor and to change their advisor at any time. To change advisors, students should go to the Undergraduate Advising Center or the Undergraduate Studies Office after securing the approval of the new advisor. No forms are required.

When students declare a major or change their major, a new advisor representing that major is either assigned or chosen by the student. Students are required to obtain their advisor's signature to request exceptions to academic requirements.

The week preceding initial registration (early April for the upcoming fall semester and early November for the upcoming spring semester) is when students meet with their advisors to plan their next semester schedule of classes. Students should examine the Schedule of Classes and consult their current Degree Evaluation within myPlymouth (see below) to determine a tentative schedule. Students should bring these materials to the meeting with their advisor where a preferred schedule for the coming semester and a list of second-choice courses will be determined. After consultation with the advisor, students will receive their Web Reg Access Code, which is needed to access the online registration system in myPlymouth. Schedule planning for students new to Plymouth is done during New Student Orientation.

Some courses are offered every semester, others once per year, and others only every other year. Because of this, and because students need to take some courses before taking others, students should plan, in consultation with their advisors, a four-year sequence of courses that meets their degree program requirements. The recommended year to take courses within the major program of study is noted within the descriptions of each major and option.

Advisors provide students with information concerning alternatives, limitations, and possible outcomes of academic choices as well as to help solve problems that arise in relation to academic work. It is the students' responsibility to ensure that they are making adequate progress toward meeting the requirements of the degree program they have chosen. Students can seek the counsel of anyone they wish toward meeting that end. For questions concerning academic advising, please contact the Undergraduate Advising Center.

### myPlymouth

The myPlymouth portal (<http://my.plymouth.edu>) is the electronic gateway to online services at Plymouth State University. Active, registered students have access to the portal as described

in the Technology section. The portal contains academic, personal, administrative, and recreational information about Plymouth State University. Self Service (under the Services tab) includes academic information such as unofficial transcripts, tuition statements, grades, and schedules.

myPlymouth is accessible from any computer with Internet access, on campus or off. A user name and password are required to access the system. This information is typically provided to new students during Orientation. Students are especially encouraged to consult myPlymouth when planning their new semester schedules to get the most current information about which courses are available and which are closed.

*It is also important that students check their schedules prior to the end of the add/drop period each semester.* Students can avoid receiving an unnecessary failing grade (AF) by dropping courses they are not attending before the drop deadline. Likewise, students can ensure that they are registered for classes in which they are participating by adding those classes to their schedules before the add deadline has passed.

### Degree Evaluation

Degree-seeking students at Plymouth State University have access, through myPlymouth, to a computerized assessment of their progress toward completion of degree requirements. The Degree Evaluation (Curriculum Advising and Program Planning, or CAPP) pairs the courses a student has taken (or officially transferred) to the general education requirements and the specific requirements of their major. Under the "Met" column, the Evaluation notes "Yes" if the requirement has been met and "No" if it has not been met. In-progress course work is noted as such. The Degree Evaluation also notes the area of study, credits earned, and grade point average as well as all courses taken or transferred to Plymouth. CAPP is an important tool for students as they begin to plan their academic schedule. When students process a Degree Evaluation, they also have the option of choosing different majors and options for assessment against the courses they have taken. This feature is known as the "What-If" Analysis. It provides an opportunity to see the influence that any potential change(s) may have on a projected completion date.

### Undergraduate Advising Center

In addition to the assistance provided to students by their academic advisor and the tools available through myPlymouth, Plymouth State University offers advising services through the Undergraduate Advising Center. The Undergraduate Advising Center, located in Mary Lyon Hall, is open Monday through Friday from 8 a.m.–4:30 p.m. The staff wants to help students meet their goals.

Each student is assigned an academic advisor and is encouraged to meet and discuss his or her program requirements with that advisor. The Center serves as an additional advising resource, particularly in relation to the graduation review process.

Each semester, students who have earned 48 credits become part of the graduation review process. Students with a declared major receive a letter, a Cover Review, and a Curriculum Planning Guide outlining their remaining degree requirements. Students may also meet with the Undergraduate Advising Center staff to review their remaining course requirements and plan for future semesters. The Center's role is to assist students with declared majors to:

- review remaining degree requirements;
- calculate major, discipline, and minor GPAs;
- process pertinent paperwork;
- plan courses for their remaining semesters; and
- find available resources to achieve their goals.

The Center also provides counsel to students in academic difficulty on the best and fastest ways to return to good academic standing.

### Undergraduate Studies Office

The Office of Undergraduate Studies administers all student requests pertaining to academic affairs (see the Academic Policies and Procedures section). This includes course substitutions, overloads, late course drops, and late course withdrawals. The office also coordinates the undergraduate Interdisciplinary Studies major, the transfer of credits, and transfer agreements (see the Admission, Tuition, Fees, and Financial Aid section). The Office of Undergraduate Studies serves as the student exchange representative for the New Hampshire College and University Council (see Study Away Opportunities). The office is located in room 208 of the Speare Administration Building and is open Monday through Friday, 8 a.m.–4:30 p.m., or call (603) 535-2235. All undergraduate students are welcome to visit for assistance with any academic concern or need.

### Academic Support Services Math Activities Center

The Math Activities Center is a hub for extra-class activities involving mathematics. During operating hours, students may use the center for completing assignments, forming study groups, and receiving group and/or individual tutorial services. Trained student tutors and faculty, dedicated to student success and achievement in mathematics, staff the center, which is located within the Department of Mathematics in Harold E. Hyde Hall, room 351. The phone number is (603) 535-2819.

### Plymouth Academic Support Services (PASS)

PASS is a federally funded program designed to provide individualized academic assistance to students enrolled at PSU. Assistance is available for students in time management, exam preparation, note taking, and other study techniques. Academic tutors are available in most introductory level courses. Advisors are available to work with students with documented disabilities. PASS is located in the lower level of Lamson Library and Learning Commons and is open during the academic year Monday through Thursday 8 a.m.–9 p.m., and on Friday 8 a.m.–4:30 p.m. Contact the office by calling (603) 535-2270.

**Services for students with disabilities:** PASS provides services to students with documented disabilities to ensure that all academic activities and programs are accessible. Through partnerships with students, faculty, and staff, PASS promotes self-determination and self-advocacy to provide opportunities for academic success.

**Tutoring:** Tutoring is available in most introductory level courses and is offered on a one-to-one basis or in small groups depending on tutor availability. Tutors are highly motivated students who have been referred by faculty and who have a minimum 3.0 GPA.

### Writing Center

The Writing Center is a place for all students to improve as writers. Professional and student consultants are available for individualized conferences. The center is used by writers of all abilities as they work on writing for courses from all departments. Writers frequently visit to get feedback on drafts in progress, but they also visit for other reasons, such as to discuss a new assignment, learn about a type of writing they have never done before, or find help preparing academic speeches and presentations.

The center is located on the lower level of Lamson Library and Learning Commons. Students can call (603) 535-2831 to make an appointment, or walk in any time the Center is open: Monday, Tuesday, and Wednesday 9 a.m.–9 p.m.; Thursday and Friday 9 a.m.–5 p.m.; and Sunday 6–9 p.m.

### Arts

#### Art Gallery and Exhibitions Program

The Karl Drerup Art Gallery and Exhibitions Program is a progressive, public series of exhibitions and events offered by the Plymouth State University Department of Art. The Karl Drerup Art Gallery is located in the renovated Draper & Maynard Building on Plymouth's Main Street and is the art department's main exhibition facility. Additional exhibition space is available in the exhibition hall of the Silver Center for the Arts. The Karl Drerup Art Gallery exhibitions program maintains an important role in the support of the educational mission and objectives of the Department of Art. These objectives are realized through the

displays of dynamic mainstream and interdisciplinary exhibitions, which present our faculty, our students, and artists of regional, national, and international reputation to the public and the entire university community.

Students have the opportunity to participate in and observe the process of how exhibitions are curated, designed, and installed. This multi-faceted program includes exhibitions; lectures, gallery talks and studio visits by guest artists, critics, and scholars; the Director's Lecture Series, the Art Smarts community outreach program to our local schools; and the hosting of special University and community events. The Karl Drerup Art Gallery is open Monday–Saturday 10 a.m.–4 p.m., and Wednesday 10 a.m.–8 p.m., or by appointment.

Additional PSU exhibitions programs are provided by the Lamson Library Exhibit Series and the Department of Art student exhibitions program. The latter series is coordinated by students from the Department of Art who design and install student exhibitions in the Collins Gallery, a department facility located on the second floor of the Draper & Maynard Building, in Lamson Library, and in the kiosks located at the front of Centre Lodge.

### Performance Ensembles

The Department of Music, Theatre, and Dance at Plymouth State University sponsors 10 performance ensembles for which students may receive credit. These groups give numerous on- and off-campus performances including regional and international tours.

One music performance ensemble—University Chorale—is open to all PSU students without audition. Four music performance ensembles—Chamber Singers, Jazz Band, Symphonic Band, and The Music Theatre Company—are open to all PSU students by audition. The Chamber Singers and University Chorale perform choral literature of all styles and periods. The Music Theatre Company produces a show during each regular semester; students may participate as performers, designers, or members of the technical staff.

Four music performance ensembles—Guitar Workshop, Percussion Ensemble, Piano Ensemble, and the Pemigewasset Choral Society—are open to all PSU students by permission of the instructor or conductor. The Pemigewasset Choral Society is a 125-voice regional singing society. Chamber Players is open to all instrumental and voice students. Keyboard Accompanying is open to all PSU students.

PSU Theatre produces a variety of shows each season, staging upwards of six to seven shows in three theatres. Directors, designers, and other artists involved are chosen from the faculty and staff, from regional and national professionals, and from the student body. These productions are open to all PSU students by audition.

The Contemporary Dance Ensemble (CDE) is PSU's dance performance company and a for-credit course (DN 3010). CDE provides multiple opportunities for students to perform and choreograph in concerts and informal workshops; the company is open to all PSU students.

### Silver Center for the Arts

The Silver Center for the Arts opened in the spring of 1992 to serve the academic needs of the Department of Music, Theatre, and Dance and to provide performance space for world-renowned guest artists. This beautiful state-of-the-art facility houses three performance areas: a 665-seat proscenium theatre, a recital hall with seating for 174, and a “black box” theatre with flexible seating. In addition to classrooms and faculty offices, the Silver Center houses an acting studio, dance studio, choral room, band room, costume shop, and carpentry shop. Throughout the academic year, the Silver Center supports numerous student and faculty performances, and presents guest artists of the highest caliber. For more information on the facility and upcoming performances, visit the Silver Center Web site at <http://silver.plymouth.edu>.

### College of Graduate Studies

Since 1948, the College of Graduate Studies has prepared exceptional professionals in a variety of disciplines. Graduate degree programs include the Master of Arts in Teaching (MAT), Master of Business Administration (MBA), Master of Education (MEd), and Master of Science (MS), as well as educator certifications and advanced graduate study options. In 2008, Plymouth State University was granted permission to offer the Doctor of Education (EdD) degree in Learning, Leadership, and Community. Qualified undergraduate students can usually earn a master's degree by successfully completing one year of graduate study after obtaining a baccalaureate degree. Courses are offered year-round in face-to-face, hybrid, and online formats. Financial aid, graduate assistantships, teaching fellowships, and research assistantships are available. For additional information, visit [plymouth.edu/graduate](http://plymouth.edu/graduate), e-mail [forgrad@plymouth.edu](mailto:forgrad@plymouth.edu) or call (603) 535-2636.

### College of University Studies

The College of University Studies assists deciding students with the resources and personal attention needed to select an appropriate major and plot a course of action leading to graduation by the most efficient route possible. The program attracts serious students who would welcome assistance deciding upon a major.

The Director of the College of University Studies sends letters of invitation to entering first-year students who identify themselves as “undecided” on their applications. Invitations are sent after students are accepted for admission and before they arrive on campus for orientation. Admission to the College of

University Studies is based on self-selection and is granted only to the first students who apply.

Faculty and academic advisors help students select courses even before they arrive on campus. PSU is committed to academic success by helping students in their search for the “right” major. Students participate in activities such as self-interest inventories and personal satisfaction questionnaires. Family members are encouraged to be involved in the decision process. Academic counselors discuss options with each student and pay special attention to the aspirations and progress of the college’s members throughout their first year. Students explore their interests and eventually make their own informed choices of a major based upon their aptitudes, skills, and experiences.

Typically, students participating in the program live in the same residence hall and generally have a roommate or roommates who are also members. The students who benefit most from this program are those willing to spend time in serious self-reflection examining their own interests and skills. Throughout the process, it is stressed that only personal commitment, self-discipline, and hard work can guarantee academic success. When students are ready and confident about declaring a particular major, the College of University Studies helps make the transition to an advisor in that appropriate field of study.

## Frost School of Continuing and Professional Studies

The Frost School of Continuing and Professional Studies at Plymouth State University is designed to meet the needs of students who want to balance work and family responsibilities while taking courses. The Frost School provides a challenging and rewarding opportunity for working professionals to continue their education or get started toward earning an undergraduate degree.

The Frost School provides access to PSU courses and degree programs with convenient courses offered evenings, weekends, online, and in “blended” (a combination of face-to-face and online) formats. The Frost School Web site ([plymouth.edu/frost](http://plymouth.edu/frost)) provides up-to-date information about PSU courses, certificates, and degree programs that can be completed through the Frost School. Students who are admitted through the Frost School have priority for enrolling in evening, weekend, online, and blended Frost School course sections, designated by an “F” in the section number (e.g., EN1200.F1).

### Degree Programs

PSU degree programs offered through the Frost School include the following:

- BS Business Administration
- BA Communication Studies, with options in
  - Film and Media Studies
  - Professional Communication
- BA Criminal Justice

- BA or BS Interdisciplinary Studies
- BA Tourism Management and Policy

### Certificate Program

The 16-credit Teaching English to Speakers of Other Languages (TESOL) certificate prepares students to teach English language learners (ELLs) of all ages. The certificate gives students the training needed for ELL teaching positions in the United States and overseas, but the certificate does **not** result in a New Hampshire Department of Education teaching license. The courses in this certificate program are open to any student and may be applied to any undergraduate degree program. See the Department of Languages and Linguistics.

### Continuing Education

The Frost School also provides opportunities for Continuing Education students. Continuing Education students are those students who are taking credit-bearing courses, but who have not been formally admitted to PSU. Continuing Education students may take a maximum of 11.5 credits per semester. Students may request to be added to the Frost School of Continuing and Professional Studies mailing list to receive regular announcements of offerings. Consultation with Frost School advisors about courses, registration, and tuition is available at [frost\\_school@plymouth.edu](mailto:frost_school@plymouth.edu) or at (603) 535-2822. Additional information is available at [plymouth.edu/frost](http://plymouth.edu/frost). The Frost School office is located in room 116 of the Speare Administration Building.

### Winterim and Summer Sessions

The Frost School provides year-round access to classes through the Winterim (January) and summer sessions. The Winterim and summer sessions are available to all students. These sessions provide students with the opportunity to make steady progress toward their degrees, to catch up or get ahead on earning credits, or to raise their grade point average. Winterim and summer rates and/or fees are lower than fall and spring terms; housing and meals are available at additional cost. More online courses are offered so students can take a course from the convenience of home or while they are working. The maximum number of credits allowed during Winterim is typically six, while during the summer the maximum is nine. Check [plymouth.edu/frost/courses.html](http://plymouth.edu/frost/courses.html) for a list of scheduled courses. Registration forms are available in the Winterim and summer course brochures and may be submitted to the Registrar’s Office or the Frost School Office. Payment for Winterim and summer courses is expected at the time of registration.

### Definitions

*Asynchronous online activity:* Asynchronous class activity can take place anywhere at any time. Students can log in and work through course materials when and where it is convenient for them, although there are usually dates by which assignments must be submitted. For example, all students enroll in a course and begin on a certain date. Typically, the instructor gives assignments that are due by a specific date and there may be regular

participation requirements, such as responding to questions and discussion topics. The student, however, may choose to log in and complete the assignment at any time of day as long as it is completed by the due date. Student-to-student interaction via the Web is another common element in online classes.

**Blended course:** A blended course combines classroom-based (face-to-face) instruction and online course interaction. In this type of course, some of the face-to-face instruction time is replaced by online course activity. For example, rather than a class meeting twice a week for 16 weeks, it might meet once every other week in the evening or some Saturdays, with the rest of the course conducted online. Blended courses may include some weekday, evening, and weekend meetings. The schedule of courses indicates the amount of “seat time” that is replaced with online activity by indicating a percentage. For example, “B40” indicates that 40 percent of the class will take place online.

**Evening course:** An evening course is a classroom-based course offered after 5 p.m. during the week.

**Intensive course:** An intensive course is one that meets fewer than 16 weeks. For example, the Frost School may offer courses that meet the first or second eight weeks of a term, allowing students to take one course at a time, but completing two courses within a term.

**Online course:** An online course is a course that has no face-to-face meetings; all the instruction and interaction take place utilizing the Web. These courses allow a student to enroll in a class without the time and place constraints of a classroom-based course. There are two types of online activity: synchronous (at the same time) and asynchronous. Most online classes predominantly utilize asynchronous interaction, but some utilize both.

**Synchronous online activity:** Synchronous activity refers to components of online classes in which students and the instructor all log in and participate in the course simultaneously. Examples of synchronous activities include chat rooms, online presentations, and video conferencing.

**Technology-mediated instruction:** Technology-mediated instruction includes significant use of various technologies to enhance learning either in the class or in outside class assignments (including the use of WebCT) and may be used in classroom-based courses, online and blended courses, and courses taught through video conferencing at remote sites.

**Traditional course:** A traditional course is one in which students are enrolled in a lecture/lab course offered face-to-face during the weekday.

**Web-enhanced:** Web-enhanced instruction is one type of technology-mediated instruction in which the instructor uses the Internet and/or WebCT as a supplement to the traditional classroom instruction.

**Weekend course:** A weekend course is one that meets in an intensive format for extended class hours during one or two weekends in a term or a blended course that meets on two or more Saturdays with the remainder of the course being conducted online.

### Before Enrolling in an Online or Blended Course

Students are encouraged to visit [plymouth.edu/online](http://plymouth.edu/online) to learn more about online courses and take the self-assessment to see if online learning is right for them. An online orientation is available, and workshops are held at the beginning of each semester to help students get started.

### Credit-by-Examination

The Frost School administers both CLEP (College Level Examination Program) and DSST (DANTES) examinations through which students can demonstrate college-level learning and earn credits toward their degree. Students should consult with their academic advisors prior to taking any CLEP or DSST exam to make sure that they are both eligible to take the exam and that credits earned will apply toward the degree. Students must receive a passing score before credits are awarded. For additional information regarding CLEP and DSST exams, see the Appendix. Credit-by-examination is another avenue for accelerating progress toward a degree.

### Community Education

The Frost School offers non-credit education through its Community Education program. Community education includes a variety of courses offered on campus, in collaboration with area businesses, and non-credit online courses for professional development and/or career training. Check for current Community Education and career training course offerings at [plymouth.edu/communityeducation](http://plymouth.edu/communityeducation).

## The Library and Learning Commons

The Herbert H. Lamson Library and Learning Commons, built in 1964, reopened in January 1998 following a major renovation and expansion. The library, a three-story, 90,000 square foot facility, takes advantage of PSU’s beautiful mountain views to the north and east. It is a popular and pleasant place for students to socialize and study.

In addition to generous seating for students and storage capacity for 450,000 volumes of print materials, the library also houses the Michael J. Spinelli Jr. Center for University Archives and Special Collections, classroom for library instruction, 145 public computers, exhibition space, classrooms, meeting rooms, listening/viewing areas, and group study rooms. The library has 120 network hot-jacks and is also wireless, allowing online



access throughout the building. The library's current collection includes more than 350,000 cataloged print and nonprint items and approximately 1,000 periodical subscriptions. The library provides access to a growing variety of subscription databases, online journals, and e-books. All online resources are accessible to PSU students, faculty, and staff, both on and off campus. In addition to online and face-to-face research assistance, librarians provide classroom instruction in the effective use of library resources. The library provides, at no charge to students, document delivery service for book and journal materials not owned by Lamson Library. As a member of the New Hampshire College and University Council (NHCUC), PSU allows students to have borrowing privileges at other college libraries in the state.

### Lamson Learning Commons

Information Technology Services (ITS) Help Desk and instructional technology support are incorporated in our acclaimed Lamson Learning Commons. Visitors to Lamson experience a renovated Information Desk as they enter the Library. Information Desk services include all library circulation and reserve services, along with ITS Help Desk services. Additional computers and professional support are available for students and faculty to develop multimedia presentations in our state-of-the-art Multimedia Presentation Center (MPC). Also located in Lamson is our popular Common's Café, which provides Starbucks's coffee, drinks, sandwiches, and snacks.

## Scholarly Societies

**Delta Mu Delta** is an honor society whose purpose is to recognize and reward business students who have distinguished themselves scholastically, and members from the academic or business community who have demonstrated distinguished scholarship, business ability, or leadership. Students must be a junior or a senior in the top 20 percent of their class and have a 3.25 or above GPA. Only schools accredited by the Association of Collegiate Business Schools and Programs (ACBSP) are permitted to establish Delta Mu Delta chapters.

**Eta Sigma Gamma** is a national honorary society open to all undergraduate and graduate health education majors who excel academically. PSU is one of 121 institutions in the United States awarded a chapter, Gamma Zeta. Its main objective is to further the professional competence and dedication of the individual members in and for the profession of health education.

**Gamma Theta Upsilon** (GTU) is an international honor society in geography and recognizes excellence in the field. The Lambda Lambda chapter at PSU was established in 2003 with the mission of being open to all students exhibiting outstanding performance in the field.

**Kappa Delta Pi** is an international honor society dedicated to scholarship and excellence in education. Plymouth State University's Lambda Alpha Chapter is an undergraduate honor

society that offers an active program of speakers, fundraising activities, and community service projects. Members of Lambda Alpha also organize and participate in literacy activities for area children. Kappa Delta Pi maintains a high degree of professional fellowship and promotes the growth of strong educational leaders.

**Lambda Pi Eta** is the official communication studies honor society of the National Communication Association, with more than 400 active chapters worldwide. The Pi Omega chapter of Lambda Pi Eta was established at Plymouth State University in 2004 to continuously encourage outstanding undergraduate scholarship, officially recognize students who excel in the communication studies curriculum, and encourage professional development among Communication Studies majors. To become a member, a student must have completed at least 60 semester hours of university-level study and at least 12 hours of communication study, have a cumulative grade point average of at least 3.0 and a communication studies grade point average of at least 3.25, be currently enrolled as a student in good standing, and display an ongoing commitment to the field of communication.

**Phi Alpha** is a national honor society for social work students enrolled in accredited programs, social work faculty, and practitioners. The purpose is to bring students together to promote humanitarian goals and ideals. Plymouth State University's Eta Omicron chapter invites into membership those who have attained excellence in scholarship and achievement in social work. Established in 1962, the honor society holds its annual meeting at the annual conference of the Council on Social Work Education.

**Phi Alpha Theta** is the international honorary society that recognizes student accomplishments in all fields of historical study. Founded in 1921, the society has more than 850 chapters and initiates more than 8,000 members each year. The mission of this honor society, including the PSU chapter, Alpha Iota Lambda, is to promote and encourage the study of history. The national organization annually awards scholarships and prizes.

**Phi Delta Kappa** is an international organization that promotes research and service in support of quality education with a particular emphasis on publicly supported education. The organization sees education as the foundation of a democratic way of life. The organization has more than 100,000 members internationally. The New Hampshire Profile Chapter of Phi Delta Kappa is affiliated with Plymouth State University and consistently invites graduate students to join. The chapter has more than 250 members, most of whom live in New Hampshire, but chapter members also live as far away as Saudi Arabia, the U.S. Virgin Islands, Austria, and Egypt. Members are public and private school teachers, administrators, guidance personnel, college faculty, NH Department of Education employees, politicians, and other advocates for education.

**Phi Epsilon Kappa** is a national professional fraternity founded in 1913. It was established to: (1) promote scholarship within the allied fields of physical education, including health, exercise science, recreation, and sport studies; (2) increase the visibility of the allied professions and the importance of these fields in daily life; (3) enhance leadership skills among students and professionals through service and scholarship.

**Phi Kappa Phi**, founded in 1897, is the nation's oldest, largest, and most selective honor society for all academic disciplines. Membership is by invitation only to the top 7.5 percent of second-term juniors and the top 10 percent of seniors and graduate students, as well as to outstanding faculty, staff, and alumni. Members receive career services benefits, vendor discounts, and access to PKP's global member network. The Society also offers competitive grants and fellowships to members, their campuses, and their communities. Phi Kappa Phi's mission is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others.

**Phi Sigma Iota** is an international foreign language honor society that recognizes outstanding ability and high standards in the field of foreign languages, literatures, and cultures. It promotes international communication and understanding, fosters the spirit of liberal culture, and offers counseling to its members concerning study and career opportunities abroad.

**Pi Gamma Mu** is an international social science honor society that recognizes students who have shown unusual interest and aptitude in the social sciences. The society also sponsors programs toward the improvement of scholarship and the inspiration of social service.

**Psi Chi** is the national honor society in psychology, founded for the purpose of encouraging, stimulating, and maintaining scholarship in, and advancing the science of, psychology. It serves two major goals: to provide academic recognition and to augment and enhance the regular curriculum by providing opportunities for practical experience, professional growth, and fellowship through chapter and national programs.

**Sigma Tau Delta** is the international honor society for college English majors and minors. The society's goals are to confer distinction for high achievement in English language and literature in undergraduate, graduate, and professional studies; promote interest in literature and English language on campus and in the community; and foster the discipline of English in all its aspects, including creative and critical writing.

## Special Offerings

### Eagle Pond Authors Series

The Eagle Pond Authors Series celebrates writers and writing by bringing distinguished authors to the campus to read from their work. The series is named in honor of former United States Poet Laureate Donald Hall, who has twice been New Hampshire Poet Laureate. Hall is renowned as a poet, essayist, playwright, and author of short stories and children's books. He lives at Eagle Pond Farm in Wilmot, NH, a family homestead that has inspired much of his writing.

### Medieval and Renaissance Forum

The Medieval Studies Council hosts the annual Medieval and Renaissance Forum. Founded in 1978, this conference draws a national and international group of scholars. The forum has become well known for the quality of the scholarly papers presented, its small-conference atmosphere, and its congeniality. Held in mid-April, the forum is open to general public and student participation. The banquet at the end of the forum, where several participants dress in period garb and the menu features authentic dishes from the Middle Ages, generally accompanied by music and dance, is a chance for the whole campus to identify with various facets of medieval life. Those interested in the forum may visit the Web site ([plymouth.edu/medieval](http://plymouth.edu/medieval)) or contact Dr. Karolyn Kinane at (603) 535-2505 or [kkinane@plymouth.edu](mailto:kkinane@plymouth.edu).

### ROTC

Students attending Plymouth State University may enroll in the Air Force Reserve Officer Training Corps or in the Army Reserve Officer Training Corps at the University of New Hampshire. The Army ROTC and Air Force ROTC offer programs leading to a commission as a second lieutenant in their respective services. Students in either ROTC program may pursue any curriculum that leads to a bachelor's or higher degree. Two- and four-year programs are available. The four-year program is open to first-year students, sophomores, and transfer students. The two-year program is open to students who have at least two academic years remaining within their university degree program. In addition to on-campus course requirements, students must attend an officer preparatory training session for part of one summer.

ROTC scholarships are offered on a competitive basis by both the Army ROTC and Air Force ROTC. Entering first-year students may compete for four-year scholarships during their last year of high school. Additionally, incoming students may compete for scholarships while already in college if they meet specific ROTC requirements. Scholarships may pay up to full tuition, mandatory fees, and required textbooks for university



courses. In addition, all scholarship recipients receive a tax-free monthly subsistence allowance. Non-scholarship students in the last two years of the ROTC program also receive the tax-free monthly subsistence allowance. Both ROTC programs have administrative and medical requirements that must be met to qualify for a scholarship and a commission.

More specific information about ROTC programs may be obtained by contacting Army ROTC at (603) 862-1078 or Air Force ROTC at (603) 862-1480 at the University of New Hampshire, Durham.

### Saul O Sidore Lecture Series

In 1979, trustees of the Saul O Sidore Memorial Foundation and representatives of Plymouth State agreed to establish the Saul O Sidore Lectureship Program at Plymouth. The purpose of this program is to bring to Plymouth State and to residents of the state of New Hampshire a variety of speakers who address critical issues and events in the political, social, and cultural arenas, thus reflecting Mr. Sidore's lifelong interests.

As president of Brookshire Mills and Pandora Industries of Manchester, NH, and owner of the *Manchester Free Press*, Sidore was a driving force for the ideals of humanity and brotherhood in the city of Manchester and the state of New Hampshire. Sidore's success was based on the theory that following ethical principles, providing security for employees, and encouraging participation from all levels in business decisions was the appropriate way to conduct a business. His openness to new ideas lives on through this PSU lecture series. All lectures are free and open to the public.

### Study Away Opportunities

Students who are in good financial and social standing at PSU and have earned a cumulative 2.50 (minimum) grade point average may participate in study away programs. All transfer policies and procedures must be followed if students want to receive credit for these experiences (see Transferring Courses to Plymouth).

### Enroll at Other New Hampshire Colleges and Universities

Plymouth State University is a participating member of the New Hampshire College and University Council (NHCUC), a consortium of higher education resources. A student exchange program allows Plymouth State University students to enroll at other NHCUC institutions for one or more courses during an academic semester. The following schools are involved in the NHCUC exchange with PSU: Colby-Sawyer College, Daniel Webster College, Franklin Pierce University, Granite State College, Keene State College, New England College, Rivier College, Saint Anselm College, Southern New Hampshire University, and the University of New Hampshire at Durham and Manchester. Students interested in the NHCUC exchange program should contact the Director of Curriculum Support in the Undergraduate Studies Office.

**Course Enrollment:** PSU students may enroll at other NHCUC institutions for one or two courses during the academic semester. Such courses, in addition to on-campus courses, must meet the minimum number of credits (12) for full-time status, and normally should not exceed the full course load defined by current policies of the University. No financial charges are made by the host institution other than, for example, laboratory fees for special instruction, parking or recreation. Those fees are billed to students by the host institution. Summer school and January programs are excluded from the exchange agreement.

**Full-Semester Enrollment:** Students who are in good financial and social standing at Plymouth and have earned a cumulative 2.50 (minimum) grade point average are permitted to take a full schedule of courses at any of the participating NHCUC institutions. The enrollment may be for one or two full-time semesters, upon agreement of the University and the host institution. Students remain registered at Plymouth State University and continue to pay PSU tuition and fees.

The determination of room and board charges is an individual arrangement between students and the host institution. The host institution will bill these charges directly to students. PSU cannot guarantee room and board at the host institution.

### The Bagley Center: International Programs, National Student Exchange, Internship Partners, and Career Services

#### International Programs

There are many opportunities for Plymouth State University students to study outside the United States through affiliated partner providers in over 50 countries. In recent years, PSU students have enrolled in programs and universities in Australia, Austria, Canada, England, Egypt, France, Germany, Ireland, Italy, Japan, Mexico, New Zealand, South Africa, Spain, and aboard ship with stops at ports in 13 different countries. Study abroad experiences are available throughout the year for nearly all academic majors. Formats include: semester and/or academic year abroad, summer and Winterim terms, international internships, work abroad, professional development/training schools, shipboard, language immersion institutes, and short-term faculty-led academic trips.

While students are eligible to participate in the vast array of available study abroad programs, Plymouth State University has signed direct affiliation agreements with the institutions listed below:

- American College Dublin, Ireland
- Bishop's University, Lennoxville, Quebec, Canada
- Kansai Gaidai, Osaka, Japan
- Middlesex University, London, United Kingdom
- University of Winchester, United Kingdom

Plymouth State University has options for studying abroad for featured majors. University relationships have been forged with the following programs to offer these customized programs:

- Adventure Education majors may study at LaTrobe University, Bendigo, Australia.
- Business, Criminal Justice, and Education majors may study at Roehampton University, London, United Kingdom.
- Summer internship opportunities are available in Sydney, Australia.

Contact the Chair of the Department of Languages and Linguistics for additional information on these language-based programs:

- Church Point, Nova Scotia: Summer French Immersion Program at Université Ste. Anne
- Cuernavaca, Mexico: a Spanish language and culture immersion program at UNIVERSAL Center for Language and Social Communication during Winterim or summer terms
- Seville and Alicante Spin; Center for Cross-Cultural Study

Planning for study abroad should generally be started at least one year in advance. Professional advisors at The Bagley Center are available on a “drop-in” basis to assist students to explore study abroad opportunities, evaluate specific program options, estimate costs, and plan for their trip abroad. Advisors also assist students with processing essential paperwork including applications, course registration forms, and pre-departure materials. Advisors also help to ensure the transfer of credit from the host institution abroad. Students should work closely with advisors in The Bagley Center’s Office of International Programs as they plan and implement their study abroad program in order to maintain their currently enrolled status as Plymouth State University students, thereby avoiding the need to withdraw during their semester/year away and having to apply for readmission upon their return. Transfer Credit Approval forms must be approved by the Director of Curriculum Support **prior** to the student’s departure date. For further information, contact The Bagley Center at (603) 535-2336 or [plymouth.edu/career](http://plymouth.edu/career).

#### **First Year/Freshman Abroad Program in Ireland**

Plymouth State University offers incoming first-semester, first-year students the unique opportunity to participate in the Freshman Abroad Program at the University of Limerick in Ireland. Students spend the fall semester, their first semester of university study, with a distinguished PSU faculty member living and learning at this prestigious Irish university. Students take two courses in a cohort group format with the Plymouth faculty and enroll in three courses of their choice from the Limerick curriculum. Students are housed on campus in student apartments and participate fully in the University of Limerick’s activities, events, sports, and clubs. This program has a limited enrollment and is best suited to mature students with previous away-from-home living experiences, skills in independent decision making and problem solving, an adventurous spirit, and curiosity about other cultures. Contact Debra Regan, Limerick Program Director at The Bagley Center.

#### **National Student Exchange**

National Student Exchange (NSE) is a domestic parallel to study abroad and is the only comprehensive, university-level, student exchange program in the United States. NSE offers a diverse group of nearly 200 colleges and universities in 48 states, including the District of Columbia, three U.S. territories, and six Canadian provinces. Instead of crossing oceans, NSE students cross state, regional, provincial, and cultural borders. The benefits for students are to expand their academic program options, maintain degree progress, experience personal growth and intellectual discovery, take courses not available at PSU, live in a different region, be exposed to diverse cultural settings, seek out graduate and professional schools, and explore career options.

There is a high probability for placement, financial aid portability, proven procedures for application and acceptance, and strong support structures on our home campus as well as at the host campus. NSE is an affordable opportunity with high student satisfaction. Contact Ruth DeCotis, NSE Coordinator at The Bagley Center for more information.

#### **Internships**

The Bagley Center is the principal contact for students in the Departments of Art; Business; English; and Music, Theatre, and Dance; as well as the Environmental Planning major, the Geography major, and the Women’s Studies minor. Students with other majors should check with their department chair to see who coordinates the internships for their major.

Students can check this academic catalog to see if an internship course is listed for their major, then, if an internship exists, read the course description for that internship to see if they meet the prerequisites.

Plymouth State University students should consider an internship to develop new skills and learn more about their field, clarify their occupational preference, grow personally and professionally, acquire valuable networking contacts in the field, add “real world” experience to their résumé, gain letters of recommendation from their internship supervisors, and increase employment opportunities following graduation. For more information contact The Bagley Center: Internship Partners.

#### **Career Services and Career Discovery**

From students’ first days on campus, they will naturally start thinking about where they want to go in life. PSU offers a variety of programs, courses, counseling, and services that will help every step of the way as students seek information on internships, graduate schools, or a future career, or looking for ways to improve their skills.

**Career Services:** The Bagley Center provides a variety of services to full-time and part-time students and alumni. Career exploration often begins with students logging on to CHOICES, an interactive career exploration software program available on

every public terminal on campus. Students can use CHOICES to explore careers, academic majors, and graduate schools. Students can save their work on CHOICES while enrolled at PSU, building a comprehensive file of their career explorations. The Web site at [plymouth.edu/career](http://plymouth.edu/career) is another good place to start. Full-time opportunities are available here. The Web site also lists job fairs and on-campus recruiting information, has a host of valuable links for career and/or graduate school, and offers the popular résumé writing guide that can be downloaded and printed.

The Bagley Center offers **Plymouth Careers eRecruiting.com** for undergraduate, alumni, and graduate students to manage their own career management accounts online. Students are offered a multitude of career and industry profiles, links to relevant new and guided Web research, a library of career advice articles, and salary information.

A professional staff member is available daily in the resource center (8 a.m.–4 p.m.) to assist students with career questions, résumé editing tips, or help in locating appropriate resources for their internship, job, or graduate school searches. The center offers Internet access, periodicals, and publications relating to career exploration, internships, work and study abroad opportunities, potential employers, job listings, and graduate school guides.

The Bagley Center hosts a number of employer information sessions throughout the year and maintains an on-campus recruiting program for regional employers. The NHCUC job fair each spring provides opportunities for junior- and senior-year students to learn about careers and internship possibilities. For more information contact The Bagley Center: Career Services.

**Career Discovery:** Students can begin their career development through the courses listed below, and as they approach graduation, should look to utilize the staff and skills of the Career Services Office in The Bagley Center to put their degree to work. The Career Discovery Program is a set of six courses offered through the Department of Business, designed to help students develop relevant life, career, and workplace knowledge and skills. The courses do not constitute a logical or required sequence. Rather, they cover a variety of areas that may be of more or less value to individual students. Thus, in consultation with their advisor, students should examine their own personal career goals, knowledge, and skills. In this context, they should evaluate which of these courses, if any, might be of significant personal value. The courses and their essential contributions to the Career Discovery Program are listed below. For further information, see the course descriptions later in this catalog, or contact the Chair of the Department of Business.

#### Course

BUDI 2650  
Career Exploration

BU 2290  
Organizational  
Communication

BU 3390  
Personal Finance and  
Investment

BU 3420  
Organizational Behavior

BU 3720  
Career Development

BU 4650  
Professional  
Employment

#### Purpose

Facilitates selection of a college major and explores post-graduation occupational possibilities

Develops skills in professional writing, interpersonal communication, and formal presentation skills, based on the expectations of employers

Develops skills in personal money management designed to allow individuals to live comfortably and successfully at a variety of salary levels

Develops skills in individual, interpersonal, and team behavior designed to promote success in the workplace

Develops an understanding of the characteristics and expectations of the work world, as well as skills in career planning, personal wellness, occupational choice, and job search

Develops skills needed to succeed in the professional workplace, including professional behavior, networking, and job search

The Career Discovery Program focuses on the development of knowledge and skills relevant to workplace success in the context of individual courses. It is not designed to provide individual career counseling or ongoing assistance in the management of a job search or personal career transitions. Such career services are provided at Plymouth State University through The Bagley Center.

### Study Centers Center for the Environment

The Center for the Environment ([plymouth.edu/cfe](http://plymouth.edu/cfe)) is a collaborative effort between Plymouth State University, government agencies, and regional non-profit organizations. Established in 2004, the center's goal is to address science, policy, social, and economic dimensions of the environment in northern New England through research, education, and collaboration. In the natural field laboratory of the White Mountains and Lakes Region of northern New Hampshire, there are endless opportunities for collaborative, environmentally focused field research projects for students. The center serves as a facilitator and focal point for innovative research and training with a sustainability ethic, reaching out to a variety of partners including towns and the business community.

**Research:** The center focuses on applied field research for the purposes of training tomorrow's environmental professionals. Examples of research projects include:

- impacts of acid rain on New England lakes,
- effectiveness of the Clean Air Act in reducing pollution,
- distribution of mercury in the environment,
- control of milfoil,
- trends in loon populations through time,
- best management practices to reduce phosphorus export to lakes and rivers,
- field and analytical methods for environmental monitoring,
- techniques for implementing effective stewardship education,
- studies of environmental opinions,
- land use planning techniques to improve environmental quality, and
- protection of drinking water sources.

Undergraduate students have the opportunity to be involved in research projects working with faculty, graduate students, and professionals in state and federal agencies, businesses, and a variety of environmental organizations.

**Environmental Research Laboratory:** The center manages a research and outreach environmental chemistry laboratory in the Boyd Science Center. The laboratory has a variety of instrumentation for analysis of environmental samples, and provides freshwater analysis services to university research programs and to state, federal, and local environmental monitoring programs. Undergraduates can conduct senior thesis research in the lab and work as research assistants.

**Education:** The center's educational program builds on the foundational premise that environmental issues have social and economic dimensions as important as those examined in the natural sciences. Students solve real-world problems, gain necessary skills and experience, and develop contacts with state and federal agencies, local governments, planning commissions, consulting firms, environmental groups, and educational institutions. To complement the sciences, students take courses in geographic information systems, remote sensing, sociology, science education, planning, statistics, journalism, tourism and/or business. Off-campus professionals and faculty are involved in our projects and work with students, enhancing the rich, real-world experience that provides future employment contacts for students.

**Outreach:** Knowledge from research has the potential to produce a better informed citizenry; environmental policy and management can be informed by research and monitoring information. Therefore, one of the key roles of the center is to translate results for the layperson and management professional via presentations, conferences, hands-on experiences, and summary documents. We want to regularly expose students of all ages to the university environment to increase environmental awareness and stewardship.

## Center for Rural Partnerships

The Center for Rural Partnerships ([plymouth.edu/rural](http://plymouth.edu/rural)) dedicates PSU's research, outreach, and educational capacities to advance collaborative projects that promote community resilience, opportunity, and a high quality of life in rural New Hampshire. The center provides students, faculty, and staff with a host of opportunities to work with regional partner organizations and communities, and to participate in engaged research projects, writing, lectures, and workshops. The diversity of project types to date includes: sustainable development, historic preservation, workforce development, cultural arts events, regional technology infrastructure, tourism marketing, math and science education, alternative heating and fuel, regional transportation, and rural health and wellness.

## Child Development and Family Center

The Plymouth State University Child Development and Family Center, a state-licensed and nationally accredited early childhood program, is part of the Department of Education. The mission of the CDFC is to provide high-quality early childhood programs to young children and their families, and to serve as a model program for preparing early childhood professionals. Its child-centered philosophy reflects an understanding of the needs of young children in a complex society. The center employs teachers who have degrees in early childhood education and/or have considerable experience in the field. The center is open weekdays September through June, 7 a.m.–5:15 p.m. and serves children between the ages of 13 months and 6 years. The center hires undergraduate students as classroom aides and serves as an observation, field experience, and practicum site for all Early Childhood Studies majors as well as for students in other degree programs.

## Frost Faculty Center for Learning and Teaching Excellence

The Frost Faculty Center for Learning and Teaching Excellence gathers faculty interested in improving learning and teaching at Plymouth State University. Drawing upon the University's excellent and dedicated faculty, the center takes advantage of in-house expertise by creating informal and formal opportunities for faculty to exchange ideas they have found effective in helping students to learn. It also serves as a location to further faculty development through externally funded initiatives.

The center's goals include synchronizing the educational aspirations of students and faculty by encouraging a campus-wide learning environment. Participants build upon proven pedagogical experiences helping students to foster the desire and the ability to engage in a positive disposition toward learning and research. The center works toward these goals by offering faculty-driven discussions of pedagogies that help students think critically, value quantitative reasoning, work with others toward common goals and to develop students' abilities to listen, read, write, and speak with skill and conviction.

### Institute for New Hampshire Studies

Founded in 1975, the Institute for New Hampshire Studies (INHS) has a mission to advance knowledge about New Hampshire and its relationship to the New England region through ongoing education and research efforts. The institute brings together the proficiencies of permanent and adjunct faculty from the social science disciplines, frequently applying an interdisciplinary approach. The institute sponsors a minor in Northern New England Heritage Studies and contributes greatly to the Tourism Management and Policy major.

Since 1980, INHS has sponsored several archaeological field schools as well as research projects, including: prehistoric site excavations; evaluations of a range of eighteenth- and nineteenth-century sites; surveys and excavations of shipwrecks having New England significance; and research to support planning and development initiatives of tourism communities, accommodations and attractions, as well as historic properties.

In 1983, INHS instituted its Occasional Publication series. The first of the series, *New Hampshire Indians: A Guide for Instruction*, is still being used by teachers throughout the state. There have since been a number of other volumes on subjects relating to New Hampshire and New England issues.

In 1985, the institute received a grant to begin the conservation and cataloging of a large collection of photographs that document the history of the Brown Company, a major producer of lumber and paper in the city of Berlin, NH. Electronic cataloging is in process, with the intention of expanding the availability and utility of this important collection.

Since 1990, INHS has conducted more than 100 individual projects for the NH Division of Travel and Tourism Development; tourism research contracts total approximately \$1.75 million to date. The INHS online tourism database is the state's largest. These efforts have gained the University an international reputation as a tourism education and research center.

The institute received a gift from Professor Clifford McGoldrick of photographs taken in the Arctic in 1896. Institute faculty mounted an exhibit of selected photographs titled *The McGoldrick Collection of Arctic Images*. Current plans are to create a traveling exhibit.

INHS has hosted the Society for Industrial Archeology winter meetings during alternate years. The institute also has been a co-sponsor of NH Archeology Society meetings. An affiliate program of the institute is the Heritage Studies option in the PSU Master of Education degree program. This program also co-sponsors the aforementioned archaeological field schools and other educational seminars. INHS projects and activities are components of a continuing effort to serve the state and New England region in keeping with the mission of Plymouth State University.

### Judd Gregg Meteorology Institute

Established in 2003, the Judd Gregg Meteorology Institute (JGMI) is located on the third floor of the Boyd Science Center and houses Plymouth State University's undergraduate and graduate meteorology programs. The purpose of the JGMI is to support and develop educational programs and research activities that relate to the atmosphere within the state of New Hampshire and beyond. It contains the Plymouth State Weather Center, one of the most sophisticated weather centers in the country, and also contains state-of-the-art meteorological equipment and computer technology.

One of the institute's primary focal points has been taking the lead nationally in developing meteorology curricula with some emphasis on air quality forecasting—an area previously ignored in nearly all undergraduate meteorology programs. This activity has been in response to new initiatives within the National Weather Service, which provides operational support in this area.

Another important task of the institute is to support the activities of air quality researchers at the University of New Hampshire and several divisions of the National Oceanic and Atmospheric Administration Earth System Research Laboratory. JGMI has provided direct forecasting services for ESRL's Chemical Sciences Division air chemistry field programs and also maintains a significant online archive of meteorological data that are used by researchers to analyze pollution events. The institute has also served as a test bed to evaluate some new technological capabilities developed by the ESRL's Global Systems Division from meteorological instrumentation to weather visualization tools. JGMI faculty members also serve as meteorological consultants to these organizations.

JGMI faculty and undergraduate/graduate students also have participated in research projects with various agencies, such as the U.S. Air Force, the National Aeronautical and Space Administration, the National Center for Atmospheric Research, the Federal Aviation Administration, the Mount Washington Observatory, the U.S. Army's Cold Regions Research Engineering Laboratory, Northeast Utilities Service Company, Public Service of New Hampshire, the Governor's Office of Energy and Consumer Affairs, the New Hampshire Departments of Transportation and Environmental Services, and the Christa McAuliffe Planetarium. In addition, institute personnel and students support pre-college teachers and students by offering teacher enhancement programs and workshops, visiting K–12 classrooms, and hosting K–12 class field trips at the Institute.

JGMI faculty and students have been conducting research at the Kennedy Space Center/Cape Canaveral Air Station in Florida to improve the understanding of strong convective winds, create forecaster training materials, and develop new forecasting techniques for the Florida Space Coast. The institute also has entered into a 10-year agreement with the NH



Department of Transportation (NHDOT) that involves deploying weather observation stations throughout the state, processing and archiving the data, and providing NHDOT personnel with real-time access to these and other forms of meteorological data. Besides standard weather information, these sites also will measure road surface and subsurface temperatures; some sites will have video imaging capability. JGMI has also worked with NHDOT on verification studies to determine data availability and integrity and to quality control incoming data. There are also several efforts with the Gray, ME, office of the NWS and the NWS meteorologists at the FAA Regional Center in Nashua, NH, to understand strong offshore low-level winds and aircraft turbulence.

The institute's outreach extends well beyond the state of New Hampshire, since the institute routinely handles requests for information from all over the nation and the world. The institute's Web site (<http://vortex.plymouth.edu>) averages nearly 1,000,000 accesses per week; during active tropical events, the hits have exceeded that amount in a single 24-hour period. Weather data from the site are routinely used by a significant number of forecasters, researchers, and students.

### **Mark Sylvestre Planetarium**

Located in the Boyd Science Center, the Mark Sylvestre Planetarium is a 31-seat facility with handicap access. Programs can be conducted using the Digitarium Alpha LCD full sky projector, or the Starlab Sky Projector, and an LCD projector with VHS, DVD, and computer (including Internet) inputs. Programs in astronomy designed for the general public, elementary and secondary students, college students, scout groups, and others are regularly given. The planetarium has been used for art classes, opera classes, summer programs for grade school children, student presentations, and a variety of other programs. In addition to the Mark Sylvestre Planetarium, there is also a portable planetarium that is used to give astronomy presentations at schools around New England.

### **New Hampshire Impact Center**

The New Hampshire Impact Center is located in the Department of Mathematics at Plymouth State University. Since 1999, the center has been working to improve mathematics education for students in the state of New Hampshire and to the nation. The center offers professional development programs in mathematics that help increase the content and pedagogical knowledge of PreK–12 teachers of mathematics. It assists school districts in the selection and implementation of standards-based, research-based curricula. It maintains a Curriculum Implementation Center, which houses several different K–12 mathematics curricula, available for school districts to review. The center also works with the College of Graduate Studies to create courses and programs for graduate students and in-service teachers that meet their needs. For more information, please visit the NH Impact Center Web site at [plymouth.edu/graduate/nhimpact](http://plymouth.edu/graduate/nhimpact).

### **Small Business Institute®**

The Small Business Institute® at Plymouth State University gives MBA students and top seniors a chance to serve local small businesses as members of consulting teams, earning elective course credits in the process. Working with a business faculty member, SBI teams visit their client companies, define the scope of their projects, execute the tasks they agree to do for their clients, then prepare and present a formal report. These reports are required to be comprehensive and professional, enabling students to ground their studies in a real-world experience. Over the past 36 years, PSU student reports have won dozens of statewide, regional, and national awards in Small Business Institute® competitions. Each consecutive year from 1999 through 2009, SBI student consulting teams have won national awards in the SBI Case of the Year Competition: two first-place awards in 2006 and again in 2008; Top Awards in 1999, 2004, 2005, 2006, and 2008; and between 2000 and 2008, seven second-place awards, one third place, and two fourth-place awards. This record of accomplishment is unparalleled by any school participating in the Small Business Institute®.

### **Statistical Consulting Center**

The Statistical Consulting Center, located in the Department of Mathematics, offers statistical consulting on the design and analysis of research projects to the faculty and students of Plymouth State University and its partners. This professional service is available at any stage of research including planning, proposal writing, design, analysis, or the final written presentation of the results. This is not a tutoring service, but rather a resource for faculty and students engaged in research. For more information, please visit the center's Web site at <http://oz.plymouth.edu/~tboucher1/Stat%20Consulting.htm>.

## **Technology**

### **Access and General Services**

Students have access to a wide variety of computing and technology resources at Plymouth State University. Upon enrollment in undergraduate or graduate classes, students receive a username and password to the PSU network. Students have a PSU e-mail account, access to the campus network via wired and wireless access points, campus computer clusters, print quotas and personal network storage space, and more. Access to network and individual resources is secure and protected with industry-standard protocols.

All of PSU's academic, administrative, and residence hall buildings are networked to provide access to online University services. Wireless network access is available in Lamson Library and Learning Commons, the HUB, Prospect Dining Hall, and academic buildings. Wireless is also available in communal areas of the residence halls.

The campus Web portal, [my.Plymouth.edu](http://my.Plymouth.edu), includes e-mail, calendars, campus information and news, numerous academic resources for research and instructional support, online course registration, bill payment, and online resources for student-specific information. For more information, see the Information Technology Services Web site at [plymouth.edu/infotech](http://plymouth.edu/infotech).

### Appropriate Use Policy

All users of the technology resources of Plymouth State University are responsible and accountable for using those resources appropriately. PSU's Appropriate Use policy is a series of guiding principles. Full information is available at [plymouth.edu/infotech](http://plymouth.edu/infotech). Compute responsibly.

### Computer Areas

PSU supports more than 30 computer clusters. Within these clusters there are more than 500 personal computers with access to the Internet as well as campus information resources. Most systems are Windows-based PCs, although some areas of specialty use Apple computers. In addition to computer clusters, many classrooms are equipped with LCD projection systems connected to computers and/or VCRs and visual display devices. The Learning Commons in Lamson Library is equipped with several computers geared to create multimedia presentations.

### Equipment Loans and Assistance

Students can borrow a wide range of equipment from Classroom Tech Services located in the Lamson Library and Learning Commons on the main floor of the library. This equipment includes multimedia projectors, video camcorders, photo cameras, screens, easels, PA systems, and more. Students find having access to this equipment extremely helpful in preparing quality presentations to meet academic course requirements. For more information regarding equipment loan and assistance services, please refer to the Web site [plymouth.edu/infotech/media](http://plymouth.edu/infotech/media).

### The Lamson Learning Commons: Integrated Library and Technology Support

Technology support is available by phone, Internet, and in person. The technology help desk is part of an integrated service provided in the library at the Lamson Learning Commons. Staffed by both professionals and students, support is available during library hours and is expanded at critical points in the semester to meet demand. The Lamson Learning Commons Web pages, [plymouth.edu/library](http://plymouth.edu/library) and [plymouth.edu/infotech](http://plymouth.edu/infotech), provide specific hours of operation as well as links to online reference materials. The Lamson Learning Commons hotline is (603) 535-2929.

Additionally, the Lamson Learning Commons provides resources and support to faculty and students in the development of multimedia materials. Specifically, there is a range of equipment and software for use in integrating audio, video, and

information resources into a variety of presentations. Assistance is also available for Blackboard, the PSU course management system.

### Language Learning Resource Center and Multimedia Classrooms

The Language Learning Resource Center, housed in the Department of Languages and Linguistics, Harold E. Hyde Hall room 221, contains 24 computer stations, audiovisual equipment and materials, and computer software designed to optimize independent and group language learning for students enrolled in language courses and for general campus use. The lab is equipped with computers with Windows Vista applications, e-mail and Internet access, a free-standing multimedia station with a projection system for designing and showing PowerPoint presentations, and international DVD and VCR players.

The Department of Languages and Linguistics has equipped its dedicated classrooms (Hyde 233, 234, 230, and 221A [minicinema]) with multimedia centers containing computers with Internet access, and projection and sound equipment for international video cassettes and DVDs.

### ResNet Provides Cable TV and Computer Network

ResNet is PSU's Residential Network, providing cable television and computer network services to students in their residence hall rooms and apartments. Basic services as outlined here are covered in the room rate and do not result in any additional charges.

Students receive the same basic cable service as the surrounding community, including more than 50 channels of popular, educational, and community programming.

Student must maintain a secure computer in order to access the campus network. PSU uses a bundled application to ensure good security practices and protect systems from virus infections, spyware, identity theft, and malicious attacks. Our campus network has direct, high-speed ports to the local network and Internet in all campus residences. Additional ports are located in Lamson Library and computer clusters across campus. There are also wireless "hot spots" in the HUB, Prospect Dining Hall, academic buildings, and the library. Residential computer consultants are available at the Lamson Library and Learning Commons for assistance with ResNet services.

Many students come to campus with cell phones. However, land-line phones to residence hall rooms are available by request. Those phones will have a campus extension and voice-mail. Emergency phones are located in central locations in the residential halls for 911 emergency calling.

### **Computer Sales and Repairs**

Students may purchase computers and software at discounted rates by visiting [plymouth.edu/infotech/computer](http://plymouth.edu/infotech/computer). The University Computer Repair Center is an authorized sales and service center for Dell and Apple computers, including warranty work. The Repair Center provides on-campus service support, providing convenient access for students and families, and minimizing computer downtime for students. More information about computer sales or repair is available at [plymouth.edu/infotech](http://plymouth.edu/infotech).



## Academic Policies and Procedures



# Academic Policies and Procedures

## Academic Integrity

Academic integrity is the foundation of the pursuit of knowledge. All members of the academic community are expected to be dedicated to the pursuit of knowledge in an honest, responsible, respectful, and ethical manner. Every violation of academic integrity is an affront to the academic community. Violations of academic integrity make fair evaluation impossible and cast doubt upon the seriousness with which students accept the responsibility of acquiring an education.

Members of the academic community are expected to report all instances of those violations that come to their attention. Both faculty and administration consider it their duty, as guardians of academic standards and intellectual honesty, to enforce the following policy by prosecuting all cases of violation of academic integrity to the fullest extent. Students are urged to consider that it is the toleration of violations of academic integrity, and not the reporting of it, that is dishonorable.

### Definitions

A violation of academic integrity includes any act that portrays a member of the academic community as having acquired knowledge through legitimate study or research which, in fact, has been stolen. Violation of academic integrity includes also any act which gains one member of the academic community an unfair advantage over another. This includes any act hindering the academic accomplishment of another.

Examples of violations of academic integrity include, but are not limited to, the following:

1. Providing or using unauthorized books, notes, or other sources of information during an examination.
2. Submitting another person's work as one's own, that is, plagiarism. This includes, for example: copying during examinations; purchasing papers or taking them from *Internet/World Wide Web* resources; copying papers, reports, laboratory results, or computer work; quoting or paraphrasing library or *Internet/World Wide Web* sources without proper citations.
3. Doing work for which another person will receive credit. This includes, for example, allowing one's examination answers, reports, laboratory results, or computer work to be submitted by another person as his or her own work.
4. Falsifying, through forgery or other alteration, academic documents such as transcripts, registration materials, withdrawal forms, or grade reports.
5. Reading, removing, or copying, without authorization, or stealing any academic document, exam, or academic record maintained by any member of the faculty or administration.
6. Using unauthorized assistance in the laboratory, at the computer terminal, or on field placement.
7. Stealing, copying, or destroying another person's computer program or file, deliberately preventing or depriving another's access to the University computer system or resources, or impeding the system's performance.

8. Stealing, or removing without authorization, books or periodicals from the library, or mutilating library materials.
9. Falsifying or fabricating data or results of research or field work.
10. Lying in connection with an academic integrity hearing.

### Panel on Academic Integrity

The Panel on Academic Integrity will consist of:

1. The chair of the Faculty Academic Affairs Committee, or his or her designee, who will chair the panel;
2. A Plymouth State University faculty member selected from a faculty pool;
3. The associate vice president for Undergraduate Studies;
4. Two student members.

The two student members and four student alternates will be elected by the voting members of the Student Senate. Students on disciplinary probation and those not in good academic standing are not eligible to serve on the panel. All elected student members must agree to be available to serve on the panel during the academic year and the months of January and June. In the event that members or alternates are unable to serve on the panel for a specific case, the chair of the panel will appoint members to serve for the case. If this is not possible, the panel may meet with as few as four members present.

### Procedure

In cases where a violation of academic integrity in course work is suspected, or in other cases of suspected violations, the individual making the discovery must initiate proceedings as prescribed in the following list of required actions:

#### I. Action within the department

1. Any violation of academic integrity, before being brought to the panel, should be examined by at least two people:
  - a. In the case of a violation of academic integrity associated with a class, these people shall include the faculty member and the chair of the department
  - b. In other cases, these people shall include whoever is making the complaint and whoever is in charge of the area of complaint.
  - c. In the case of stealing, removing, or mutilating library materials, in conjunction with a course, the library shall notify the course instructor of the violation. The course instructor shall pursue the complaint. Library personnel may be asked to appear as witnesses.
2. The examination shall be thorough enough to establish with reasonable confidence whether a violation of academic integrity occurred, who the parties involved are, and that accusations can be justly made and are supportable. The examination shall proceed as quickly as possible and will generally be complete within one week.
3. The student, or students, shall be made aware of any accusations, be given a copy of this policy, and have the opportu-

nity to respond. Any supporting evidence shall be gathered and verified as thoroughly as possible. All of this shall be done in a non-threatening manner.

4. If the examiners are not reasonably confident at this point that a specific student violated the Academic Integrity Policy and that the evidence of that violation is substantial, the matter shall be dropped, except that the department shall take steps to remedy any procedures or conditions that may have led to the violation or to the lack of evidence, e.g., an exam that has been compromised may be canceled and/or readministered by the department. If both of these points—that a specific student violated the Academic Integrity Policy and that evidence of that violation is substantial—are clear, the chair shall notify the student by letter of the specific violations of academic integrity of which the student stands accused. If not already provided, a copy of this policy shall be enclosed. A copy of the letter and all supporting evidence shall also be sent to the vice president for Academic Affairs. If the instructor thinks that a lesser or greater penalty than an F in the course is warranted, a statement of recommendation, with explanation, may accompany the supporting evidence.
5. The complainant (or his/her representative) shall attend the panel hearing.

## II. Actions by the student

Students shall:

1. Honor any requests by complainants and/or department chairs for interviews concerning any alleged violations of academic integrity. This is the first and best opportunity for the student to present ameliorating evidence and/or arguments of innocence.
2. Continue to attend the course until notified otherwise.
3. Read the Academic Integrity Policy. If the student has not received a current copy by the time of the vice president's letter (see III), it should be requested of the vice president's office.
4. If the student wishes to attend the hearing of the Panel on Academic Integrity, they shall notify the vice president for Academic Affairs within 72 hours of receipt of the vice president's letter. A student may choose not to attend the hearing and instead may submit a written statement to the vice president for Academic Affairs for consideration by the Panel on Academic Integrity. Any supporting evidence for the student's case may be presented by the student at the hearing. If the student wishes additional witnesses to be called, the Office of the vice president must be notified so that those witnesses may be called for the hearing. If the student fails to notify the vice president for Academic Affairs of his or her intent to attend the hearing or submit a written statement to the Panel on Academic Integrity, and the vice president's office has confirmation that the student has been properly notified of the hearing, the allegation of a violation of academic integrity is sustained, and the hearing will be conducted to determine the sanction.
5. A student wishing to appeal a judgment of the panel may do so to the vice president for Academic Affairs within one

week of the hearing. The appeal should be in writing, stating all reasons that the student has for appealing the decision of the panel. If the penalty involves failure in a course, the student should continue to attend until a decision is rendered at the appeal hearing.

6. If found guilty, the student must comply with all requirements of the panel.

## III. Actions within the Office of the vice president for Academic Affairs

1. Upon receipt of the letter (I.4) the vice president shall officially notify the student of the charges and shall refer the matter to the Panel on Academic Integrity.
2. The panel hearing shall be arranged as soon as possible. The student panel members, witnesses, and the person making the complaint shall be notified. (The student may choose not to attend.)
3. Regardless of the outcome of a hearing or appeal, a record of the proceedings and supporting evidence will be kept for the prescribed time (see Records).
4. The vice president shall hold an appeal hearing as soon as possible upon receiving a written appeal. The vice president may call upon any person involved when the appeal is considered. After the appeal, action referred to in Section III.3 is modified if appropriate.
5. The record of each student found guilty by the panel shall be checked for prior convictions. If this is a second conviction, the panel will be reconvened no sooner than eight days, nor later than 14 days, from the date of the second conviction to decide whether to expel the student from the University, to suspend the student for a period no less than one year, or to assign some other penalty as appropriate. If the student has appealed the second or later conviction to the vice president, however, the panel will be convened no later than seven days after the failure of the appeal.
6. The judgment of the panel shall then be carried out. In cases when the penalty is:
  - a. an F on an assignment, the instructor shall be responsible for implementing that sanction as part of his/her regular record keeping for the course. The chair of the Panel on Academic Integrity shall notify, in writing, the vice president for Academic Affairs of the sanction.
  - b. an AF for a course, or a suspension or an expulsion, the chair of the Panel on Academic Integrity shall notify, in writing, the vice president for Academic Affairs of the sanction. The vice president shall then be responsible for notifying the vice president for Student Affairs, the Registrar, and the Director of Financial Aid, in writing, of the sanction. For a grade of AF, the Registrar shall enter this grade on the transcript. For a suspension or an expulsion, the Registrar shall enter a notation of academic suspension or expulsion on the student transcript. If the sanction in question is a suspension, it shall be considered effective at the beginning of the next full semester. A student shall have the right to petition the vice president for Academic Affairs for removal of the notation of

academic suspension from the transcript. At the time of graduation or two years after the academic suspension, whichever comes first, the student may petition for the removal of the suspension. Pending an appeal, an expulsion shall begin on the date of conviction.

#### IV. Actions by the Panel

1. Upon being notified of an impending hearing by the Office of the vice president for Academic Affairs, each panel member will, prior to the hearing, visit the vice president's office and examine the materials for the case.
2. The panel will, at the hearing:
  - a. hear the complaint by the instructor or person making the complaint;
  - b. hear any explanation or expression of mitigating circumstances the student may wish to give, if present;
  - c. question both the student and the person making the complaint as necessary;
  - d. decide the case and any penalty;
  - e. tell the student the result of the hearing, explain the consequences, and inform the student about the right of appeal if found guilty.
3. The chair of the panel will inform the student in writing of the panel's action. Copies of this letter will be sent to the vice president for Academic Affairs and to the person making the complaint. All documents shall be returned to the Office of the Vice President.
4. If the panel is reconvened because of a student's second or later conviction, the chair of the panel will obtain from the Office of the Vice President for Academic Affairs the files from the panel hearings. The panel will then decide what further penalty to assess (see Penalties). The chair will write a letter to the student, with a copy to the Office of the Vice President for Academic Affairs, informing the student of the further penalty and of the right of appeal.

#### Penalties

In most cases when students are found guilty of a violation of academic integrity for the first time, whether by admission of guilt or by the findings of the Panel on Academic Integrity, and where the incident occurs in connection with a specific course, the panel will decide that they be excluded from further participation in the course, receiving a grade of AF on their transcripts. An AF signifies administrative failure, signifying that the course has been failed for administrative reasons; the impact is the same as an F in all other regards. In those cases where, in the judgment of the Panel on Academic Integrity, the offense is unusually serious, the panel may also decide to suspend the students from the University for no more than one year. In those cases where in the judgment of the Panel on Academic Integrity there are extenuating circumstances, such as cases where the incident clearly occurred because of ignorance rather than intention, or in cases of plagiarism where the amount of material plagiarized was extremely small, the panel may decide on a lesser penalty than AF in the course: an AW in the course or a grade of F on the assignment. If the faculty member in

whose class the offense occurred recommends a penalty, the panel may take this into account in reaching its decision.

In cases where a first conviction for a violation of academic integrity occurs apart from a particular course or where it has a minor or tenuous impact on a course, the penalty may be simply having a record of conviction (see Records). Here too, however, in cases where the offense is unusually serious, the panel may decide to suspend the students from the University for no more than one year. A record of conviction is, at any rate, a serious consequence of a first offense. The second conviction for violating academic integrity will normally result either in suspension for no less than one year or expulsion. Also, if the second offense occurs within a particular course, an AF will be posted on the transcript as the final grade for that course.

If a violation of academic integrity involves damage to University property or otherwise violates the law, legal or disciplinary action also may be taken.

#### Records

If the student is found not guilty of violating academic integrity, all evidence will be retained by the vice president for Academic Affairs for a period of three years. The vice president for Academic Affairs shall be the only person with access to these records. After three years, all evidence shall be destroyed. A record shall be retained of the action taken by the panel, only accessible to the vice president for Academic Affairs.

Whenever students have been convicted of violating academic integrity, a record of the conviction shall be retained permanently by the vice president for Academic Affairs. The vice president for Academic Affairs, all faculty and Principal Administrators with legitimate need to know, and the student in question shall have the privilege of access to the record. The vice president for Academic Affairs shall retain all evidence related to the case until three years after the student has left the University. A record of the conviction shall be reportable to the panel if the student is convicted of a subsequent violation of the Academic Integrity Policy and to any outside agencies legally requesting this information until the student graduates or five years after the conviction.

#### Fair Grading

Fair and equitable grading reflects values to which all members of the Plymouth State University community commit themselves. Grades are used to assess the relative extent to which students achieve course objectives in all for-credit courses at PSU.

Academic freedom allows instructors (1) to determine course objectives, within the bounds of established curricula, and the means by which a student's mastery of those objectives will be evaluated, and (2) to evaluate the quality of work on individual exams or assignments.

Students have the right to challenge evaluations of their work. Such challenges are of two kinds. Those that question the accuracy of grades are resolved by means described under Grade Appeals. Questions related to the policy or process of making assignments and determining the final grade are addressed by Standards for Fair Grading.

### Standards for Fair Grading

To achieve fair and equitable grading, instructors shall inform students, in writing, e.g., via a syllabus, of the course objectives and the means by which student mastery of those objectives will be determined. Instructors are expected to share this information with students during the first class meeting and to provide this information, in writing, no later than the second class meeting. These arrangements cannot be altered after the class has met for one quarter of its scheduled class meeting time if the changes disadvantage a student. The grade of a student shall be based solely on the criteria known to all students in the class, and all such criteria shall apply to mastery of stated course objectives.

Examples of violations of the fair grading policy include, but are not limited to, the following:

1. Allowing alternate work to substitute for coursework assignments, for a particular student or group of students, when that option has not been stated in the syllabus as available to all students
2. Allowing a student to perform extra work, over and above that described in the syllabus, to influence her or his grade, when that same opportunity has not been made available to all students
3. Allowing any student to perform extra work after final grades have been submitted to improve his or her grade

Exceptions to the above example violations may be allowed in cases related to documented learning disabilities when alternative testing arrangements have been made through Plymouth Academic Support Services (PASS) and in cases where there are documented serious extenuating circumstances.

When a member of the Plymouth State University community believes that fair grading practices are not being followed in a particular course, they must raise the issue in the following way:

- I. Raise the issue with the instructor of the course to consider whether the suspected violation of the fair grading policy did occur. If the facts of the matter are disputed, without resolution, the chair of the instructor's department shall be consulted; if unresolved, the associate vice president for Undergraduate Studies shall be consulted; and if unresolved, the Faculty Academic Affairs Committee shall hear the facts and reach findings. If it is determined that a violation of the fair grading policy did occur, either through the above process or through the instructor saying so at the outset, and the instructor can and does make suitable arrangements to come into compliance with the policy, the matter will be considered resolved.

- II. If a violation of the fair grading policy is shown to exist via step I, and the instructor cannot or will not take immediate remedial action, he or she shall be guided, by the Academic Affairs Committee, as to how to correct the problem and as to how to ensure that such a situation does not occur in the future. The most extreme case would result in the placing of a letter in the personnel file of the instructor involved, stating the nature of the matter and the conclusion reached by the Academic Affairs Committee. A copy of this letter would then be sent to the appropriate department chair and the vice president for Academic Affairs.

Barring matters related to the just administration of the fair grading policy above, final grades submitted to the Registrar may only be changed due to an error in determining the grade or an error in recording the grade. Students may challenge the accuracy or completeness of their semester's academic record for a period of two years from the end of the semester in question. After this period the University shall have no obligation to alter a student's academic record except to correct an error in transferring grades from the official grade roster to the transcript.

### Grade Appeals

Students who challenge a grade should begin by talking with the instructor of the course involved. If the situation cannot be resolved by that means, or if the nature of the problem precludes discussion with the instructor, students may bring the matter to the attention of the chair of the individual's department. The chair will attempt to resolve the matter either through discussion with the instructor alone or jointly with the student. If these meetings do not provide a solution satisfactory to all parties, the question may be taken to the associate vice president for Undergraduate Studies, where the matter will be reviewed. Regardless of the outcome of these discussions, only the instructor of a course, using her/his professional judgment, can change a student's grade. If the associate vice president is not satisfied with the proceedings, the associate vice president can ask the Academic Affairs Committee to hear the matter as described in I and II under Standards for Fair Grading.

### Student Classifications

Students at Plymouth State University may be either matriculated (degree-seeking) students or continuing education students. To be a matriculated student at PSU means that the student has been admitted and is actively working on a degree program. Continuing education students have not been admitted into a PSU degree program, or they have been withdrawn. Continuing education students at PSU are taking courses for the purposes of lifelong education or to transfer credits earned into a degree program at PSU or elsewhere.

Matriculated students are classified as either part-time or full-time depending on the number of credits in which they are enrolled. Part-time matriculated students are those who have enrolled in 11.5 credits or less in any given semester. Full-time matriculated students are those who are enrolled in 12 or more



credits in any given semester. Billing is done on a per credit basis for part-time matriculated students. Full-time students receive the same bill for taking 12 to 17 credits.

Part-time matriculated students who wish to change to full-time should make their request in writing to the Registrar. The deadline is the end of the first week of classes in the term in which the change is to be effective. Students should include the following information: name (printed), student ID number, date, current address, current phone number, statement of request, term to be effective, and signature. For currently admitted matriculated students, an on-time request to change to full-time status is automatically granted. Students not currently admitted to the University should contact the Office of Admission regarding readmission.

Full-time matriculated students who wish to change to part-time status must request a change of status in the Office of the Vice President for Student Affairs. This request must be made by the end of the add period in the semester in which the change is to be effective. Students should consult the Schedule of Classes, either online or the printed copy, or the Web calendar for the add deadline. A change to part-time status may affect a student's eligibility for financial aid, on-campus housing, and intercollegiate athletics, as well as eligibility for loan deferments, insurance, and the like. Full-time tuition and fees will be charged to all students identified as full-time when admitted.

All matriculated students (full-time and part-time) must be enrolled in at least one credit in each regular semester, spring or fall, or they will be withdrawn from the University. All matriculated students (full-time and part-time) who have been withdrawn but wish to return to a degree program must contact the Office of Admission to apply for readmission.

### Academic Calendar

Plymouth State University offers two full-length semesters: the fall semester (September through December) and the spring semester (February through May). In addition, during the month of January there is a term known as Winterim that runs full-length credit-bearing courses. This January session allows students to accelerate their programs, take courses missed during the regular sequence, or catch up in terms of academic progress. Courses offered in Winterim run on variable schedules to provide approximately the same number of classroom hours as when these same courses run during the fall and spring semesters. Students with a 2.33 (minimum) cumulative grade point average may enroll for six credits. Students who are on-campus residents during the fall and spring semesters may stay in their residences, for a small fee, during the month of January. The cost of tuition and fees during Winterim is significantly less than during the fall and spring semesters; the savings is particularly pronounced for out-of-state students as an incentive to participate.

Separate undergraduate and graduate summer sessions are also offered. Full-length courses running on variable schedules are available in these summer sessions; some are intensive one- or two-week programs, while others run over a four-, six-, or eight-week period. A variety of courses are offered, which can accelerate students' academic progress. Students can register for a maximum of nine credits; only students with at least a 2.33 cumulative grade point average and permission from the associate vice president for Undergraduate Studies may take an overload. Once again, the cost of tuition and fees in summer sessions is significantly less than during the fall and spring semesters; the savings is particularly pronounced for out-of-state students.

### Class Attendance

Plymouth State University students are held accountable for meeting all course requirements, which may include both in-class and out-of-class experiences, as well as both individual and group-based activities. Students must therefore realize that they are expected to attend all regularly scheduled meetings of courses in which they are enrolled. During the first regularly scheduled class meeting, all instructors must explain class attendance policies and explicitly document, in writing on a course syllabus, whether or not unexcused absences will be used in computing grades.

Students are urged to recognize the importance of participation in class activities and to be aware that their course grade may be affected by unexcused absences. It is the option of the instructor to determine the attendance policy for classes and to decide whether to allow students to make up missed work for unexcused absences. Unless the course instructor states otherwise, students should assume that there will be academic consequences for every absence deemed unexcused by the instructor.

### Excused vs. Unexcused Absences

Student absences are defined as excused or unexcused. Unexcused absences are those that occur without adequate reason. Unexcused absences may be used in the computation of grades.

Excused absences are defined as absences stemming from (a) participation in University-sponsored activities and (b) compelling and extenuating circumstances beyond a student's control. Documented excused absences may not be used in the computation of grades. Instructors must allow students to make up missed examinations, quizzes, writing assignments, and other course work for documented excused absences. Examples of excused absences include, but are not limited to, the following:

1. Documented student's participation in University-sponsored events
2. Student's documented illness
3. Student's documented injury
4. Documented death in a student's immediate family
5. Documented illness or injury in a student's immediate family

6. Documented student's required military duty
7. Documented student's required jury duty

Instructors are not obligated to excuse an absence if a student fails to provide requested documentation. Instructors also reserve the right to determine when the number of excused absences exceeds a reasonable limit to the extent that it significantly interferes with a student's satisfactory mastery of course content/skills. Excused absences do not exempt a student from course requirements, and therefore in circumstances that entail excessive excused absences the instructor may reasonably recommend that a student consider withdrawal from a course.

### Procedures for Reporting Absences

It is the **responsibility of the student**, where possible, to notify instructors regarding absences for whatever reason or period of time. This should take place before leaving campus, during an illness, or upon return to campus. If there are extenuating circumstances that make such communication difficult, students should contact the Undergraduate Studies Office. The Undergraduate Studies Office will send absence notices to a student's instructors, but such notices are for information purposes only and **do not serve as documentation** for absences.

### Additional Attendance Considerations

Students are reminded that they have the responsibility to choose their extracurricular activities at times not in conflict with their academic classes.

Students who do not appear for the first class of the semester and do not notify the instructor before the class meeting that they will be absent, **may** be dropped from the course by the instructor, and their place may be given to another student. Students should not, however, assume they have been dropped if they miss the first class.

Student teachers are subject to the same attendance rules as the regularly employed cooperating teachers, within the bounds of the University calendar. Absences because of sickness of the individual or a family member can be excused by the principal or superintendent of schools. Absences for other causes have to be agreed upon jointly by the principal or superintendent and the University's Coordinator of Teacher Certification and Clinical Experiences.

### Registration

**Matriculated (Degree-Seeking) Students:** New matriculated students register for courses at New Student Orientation after having had an introduction to Plymouth State University's degree programs and registration procedures. Currently enrolled and matriculated students register for fall classes the previous April and for spring classes the previous November. This process is known as Initial Registration. The *Schedule of Classes* is published by the Office of the Registrar in late March and late October. Included are a general registration schedule, a calen-

dar of important dates, notices regarding clearance of holds and payment of tuition, instructions, and the schedule of classes.

Students register according to the total number of credits earned on their transcript, including credits transferred, prior to the sixth Friday after the start of the term in which Initial Registration occurs. Students with no credits earned register based on computerized randomization. Registration time tickets and Web Reg Access Codes are available from their advisor. Time tickets are also available online in the registration system.

Students should consult their Catalog and Degree Evaluation (available on myPlymouth) as they begin to plan their schedule. During the two weeks before registration, students should consult with their advisor and obtain their Web Reg Access Code. Students may then register for classes on the Web based on their time ticket and for several weeks thereafter.

### Undergraduate Seniors Registering for Graduate Work:

Information about the graduate programs available at PSU may be found in the Plymouth State University Graduate Catalog. Seniors with a 3.00 or better cumulative grade point average may take up to six credits of graduate work at PSU. The credits count toward completion of the undergraduate degree as well as toward the graduate degree. Permission of the instructor, the advisor, the department chair or designee, the associate vice president for Graduate Studies and the associate vice president for Undergraduate Studies is required **prior** to course registration, using a Student Request Form; these forms are available at the Undergraduate Studies Office.

### Course Adds, Drops, and Withdrawals

*Note: Dropping or withdrawing from a course may affect the student's progress toward degree. In addition, if dropping or withdrawing from a course or courses will drop a student to below full-time status, the student's eligibility for financial aid, on-campus housing, intercollegiate athletics, eligibility for loan deferments, insurance, and the like may be affected. Before taking such an action, students are strongly encouraged to discuss its impact with their advisors and/or representatives of the Bursar's Office and the Financial Aid Office.*

### Add/Drop Period

Students may add or drop *full-semester, first-half, or first-quarter courses* until the **end of the seventh calendar day of the semester**. *Internships, practica, individual enrollment courses, independent study, second-half, fourth-quarter, Performance Study, and auditioned courses* may be added or dropped until the **10th Friday after the first day of classes**. Adding or dropping a course does not require the signature of the instructor. Courses dropped within the drop period will be removed from the transcript.

**Late Adds:** Late adds are allowed with the signature of the instructor, but a fee of \$50 per course will be assessed. Late adds after the term ends will require a fee of \$100 per course.



## Withdrawal Period

Students may withdraw from *full-semester courses* any time after the end of the drop period (the seventh calendar day of the semester) until the **10th Friday after the first day of classes**. Students may withdraw from *internships, practica, individual enrollment courses, independent study, second-half, Performance Study, fourth-quarter, and auditioned courses* from the 10th Friday after the first day of classes until the **14th Friday after the first day of classes**. The instructor must sign the course withdrawal form. Students must submit the course withdrawal form to the Registrar after it has been signed by the instructor. A grade of W (withdrawal) will be recorded on the transcript. Withdrawal (W) grades do not contribute to a student's grade point average.

**Late Withdrawal:** After the withdrawal period has ended, students may petition for withdrawal from a course only under extenuating circumstances such as, but not limited to, the following:

1. Documented learning disability for which evidence has been produced after the withdrawal period has ended
2. Documented medical circumstances arising after the withdrawal period has ended
3. Care of family during an emergency arising after the withdrawal period has ended
4. Military duty, where activation has occurred after the withdrawal period has ended
5. Jury duty
6. Transfer credit that is verified only after the withdrawal period has ended

The petition is to be presented to the associate vice president for Undergraduate Studies and must include a letter explaining the extenuating circumstances, whatever documentation is available, and a course withdrawal form signed by the instructor, indicating a grade of W is to be assigned.

## First-Day Drop

Students who do not appear for the first class meeting of each course and do not notify the course instructor before that class meeting that they will be absent, **may** be dropped from the course by the instructor, and their place may be given to another student. **Students should not, however, assume they have been dropped if they miss the first class.** This policy is most typically used by instructors of courses in which demand is high and ability to accommodate extra students is low. Students should make a point, early each semester, to verify their academic schedule online.

## Auditing a Course

Students who wish to take a course for their own interest or development but not for credit may register to audit most courses. Auditors usually are not required to complete normal class requirements. No grades will be issued to students who have registered as auditors. An AU will be entered on the transcript for the audited course. Students wishing to change a graded course to audit must complete the transaction with the

Registrar before the end of the appropriate course add period (see Course Adds).

## Overload Credit

Full-time students taking more than 17 credits during a fall or spring semester are assessed a per credit overload fee. See the Overload Fees in the Tuition and Fees section for details. Students with a 2.33 (minimum) cumulative grade point average are eligible to take up to four credits of overload by completing an Overload Request form which is available at the Registrar's Office or may be downloaded from the forms section of the Registrar's Web site. Students with a cumulative grade point average of less than 2.33 and students requesting more than four credits of overload must secure, by the appropriate add deadline, the approval of their advisor and the associate vice president for Undergraduate Studies.

During Winterim students with a 2.33 (minimum) cumulative grade point average may enroll for six credits. Students with a cumulative grade point average of less than 2.33 may enroll for six credits, with permission of the associate vice president for Undergraduate Studies. Any student requesting more than six credits must secure the permission of the associate vice president for Undergraduate Studies. During summer sessions students may enroll for nine credits. Any student requesting more than nine credits must secure permission from the associate vice president for Undergraduate Studies.

## Enrollment Confirmation

At the beginning of each fall and spring semester, matriculated (degree-seeking) students must confirm their enrollment at Plymouth State University. Confirmation is not the same as registration; it is a separate action to verify that students are registered for credit, are present on campus, and have satisfied their financial obligations.

Failure to be confirmed by the deadline can result in loss of classes, return of financial aid, and withdrawal from the University. See the Enrollment Confirmation section of the Schedule of Classes for more details and dates. Contact the Office of the Registrar with confirmation questions.

## Enrollment Verification

Plymouth State University has authorized the National Student Clearinghouse (NSC) to provide all degree and enrollment verification. National Student Clearinghouse may be contacted at:

National Student Clearinghouse  
13454 Sunrise Valley Drive, Suite 300  
Herndon VA 20171  
Fax: (703) 742-4239  
e-mail: [service@studentclearinghouse.org](mailto:service@studentclearinghouse.org)  
Online: [studentclearinghouse.org](http://studentclearinghouse.org)

Enrollment Certificates may only be obtained (at the earliest) two weeks prior to the start of the fall and spring semesters from the NSC Web site. For verifications prior to that, students should submit a copy of their online schedule to the requestor. Students may access the service by logging into myPlymouth and choosing the Enrollment Verification link in Self Service.

For enrollment verification or certification purposes, the following categories are used for undergraduate students during the fall and spring semesters:

12.0 credits or more	Full-time
6.0 to 11.5 credits	At least half-time
Fewer than 6.0 credits	Less than half-time

Categories are based on the number of credits in which students are enrolled on the date the verification or certification letter is prepared. For more detailed information, see the enrollment verification policy posted at the Office of the Registrar or on the Registrar's Web page. An Enrollment Verification form is also available.

### Transferring Credits to Plymouth State University

The University allows transfer credit from regionally accredited degree-granting institutions for courses that are graded C or above or its equivalent (a grade of P in a Pass/No Pass course). Courses deemed by Plymouth State University or the transferring institution to be either developmental/remedial or vocational are not transferable. Academic credit for life experience and previous work experience is not given. A grade of C- or CD is not equivalent to a C. Only the credits will be transferred. Credits earned as quarter hours or other units are converted to semester hours. Grades from other institutions will not appear on the PSU transcript, nor will they be included in students' grade point averages. The only exception to this is a PSU course taught through Granite State College within the University System of New Hampshire (translocated course). When translocated courses are transferred into the University, these courses are placed on the PSU transcript and treated as non-transferred courses. Grades earned in PSU courses taught through GSC are averaged into students' grade point averages at PSU, regardless of grade.

Students entering Plymouth State University with transfer credits shall have their cumulative grade point average established by their PSU grades only. Transfer students are subject to the academic standards for satisfactory performance.

A maximum of 65 credits taken at two-year colleges or 90 credits taken at four-year institutions will be accepted toward the baccalaureate degree. If students take a course at PSU for which they have already received equivalent transfer credit, they will be notified. Their PSU enrollment will be changed to audit; they may request to drop the course.

A course from a two-year college transfers to PSU as lower-level only. A course from a two-year college may transfer as upper-

level only if equivalency to a PSU upper-level course can be demonstrated. Students will have to supply course syllabi, sample texts, and other documents for evaluation by the appropriate department chair.

No Plymouth State University course for which credit was received may be repeated at another institution. Only a course failed at PSU may be repeated elsewhere. The transfer course must be equivalent to the course failed at PSU. Upon receipt of the transfer credit, the PSU grade of F will be removed from the grade point calculation.

Transfer Credit Approval forms are available from the Undergraduate Studies Office. A transfer course database (TCOURSE) is available on the University's Web site. This database shows all courses that have been transferred into PSU from other colleges/universities and the way that those credits have been applied to the University's degree programs. If a course appears in the Plymouth State University database as having been transferred in and applied in the way students wish to apply it, the Transfer Credit Approval form merely provides a way to link the incoming transcript to students' requests.

In the event the course has never been transferred into Plymouth State University, or in the way students desire, the Transfer Credit Approval form provides an opportunity for that course to be evaluated by PSU **prior** to students taking it. A copy of the catalog course description must accompany the Approval form. The department sponsoring the major determines the applicability of transfer credits to a student's major.

### Earning Credits

Students may earn credit applicable to Plymouth State University degree programs by taking courses at PSU or by taking approved courses at other colleges/universities and transferring in the earned credits as outlined above. Alternately, students may earn credit through examination, independent study or individual enrollment.

**Credit-By-Examination:** Credit-by-Examination is a way that students may earn a maximum of 30 credits. The examinations may be nationally standardized examinations or ones composed by Plymouth State University faculty. When students earn credit by examination, a notation is made on their transcripts next to the pertinent credits.

The nationally standardized examinations recognized by PSU are the AP (Advanced Placement), CLEP (College Level Examination Program), and DANTES examinations (see Appendix). AP exams are typically given to juniors and seniors in high school. CLEP and DANTES exams can be taken on or off the University campus at official testing sites. If Plymouth State University is specified as a school to receive an official grade report, no further action is required of the student. In the case of AP exams, the appropriate academic department(s), acting in conjunction with the Undergraduate Studies Office, will determine

whether credit and/or placement in advanced courses is to be granted. Scores on CLEP and DANTES exams will be assessed to see whether the standards for the conferring of credit have been met. If they have, credit will be given for courses in which students have not already received university credit.

Students who believe they have adequate background in a particular subject may seek to obtain credit by taking an appropriate examination determined by Plymouth State University faculty. The faculty member(s) and the academic department involved determine whether or not a course is open to credit-by-examination. They are responsible for administering, assessing, and reporting the results to the Registrar if such an examination is given. Grades are not awarded. A credit-by-examination fee (see Tuition and Fees section) is required.

**Independent Study:** Independent Studies are upper-level (4910), special, individualized projects; students may earn one to four credits in any given Independent Study. This opportunity is intended to provide a capstone experience for upper-level students. Independent Study forms are available at the Registrar's Office and online. Completing the form involves receiving approval of the professor, appropriate department chair, and advisor. Once all signatures have been obtained, the student must bring this form in person to the Registrar's Office to register for the credit.

**Individual Enrollment:** Individual Enrollments are a way for a matriculated student to be able to take a required course not currently being offered during any given fall or spring semester. The student must demonstrate extenuating circumstances as to why the course could not be taken in the regular sequence. No individual enrollment will be granted for a course currently being offered. Individual enrollments are not available to non-matriculated continuing education students. Individual Enrollment forms are available at the Registrar's Office. Completing the form involves procuring the approval of the professor, appropriate department chair, advisor, and the associate vice president for Undergraduate Studies (or designee). Once all signatures have been obtained, the student must bring this form in person to the Registrar's Office to register for the course. Credits earned are treated exactly as conventional classroom courses in regard to tuition and fees. There will be only one course offered by individual enrollment per faculty member in the fall and spring semesters; in Winterim and summer an individual enrollment comprises part of a faculty member's teaching load.

**Services in the Armed Forces:** All veterans applying for admission to the University must submit a copy of their separation papers (DD 214) as part of the entrance requirements. Veterans who have served on full-time duty for more than one year (12 consecutive months) in the armed forces may receive two physical education credits.

## Class Level

Students are classified according to the total number of credits earned, including transfer credits accepted, as follows:

Class Level	Number of Credits
First Year	Fewer than 24
Second Year (sophomore)	24-47
Third Year (Junior)	48-71
Fourth Year (Senior)	72-95
Fifth Year (Senior +)	96 or more

*Note: For financial aid eligibility the number of full-time semesters attended also is taken into account.*

## Grading System

Letter grades, with pluses and minuses noted, are used to assess the relative extent to which students achieve course objectives in the vast majority of Plymouth State University courses. These courses are the ones on which a student's grade point average is based. A student's grade point average is calculated on both a semester basis and on a cumulative basis that takes into account all grades earned by a student at Plymouth State University. Grades earned at other colleges/universities whose credits were transferred into PSU are not taken into account except translocated courses as described in the Transferring Credits section.

**Grade Point Average:** The following grade point system is used to determine the student's grade point average.

Grade	Points per Credit
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0.00

The point equivalent of a grade is multiplied by the credits earned in that course. The sum total of all such points earned in a semester, divided by the number of credits attempted, yields the semester grade point average as illustrated below.

Course	Grade	Points	Credits	Total Points
Composition	B	3.00	3	9.00
General Biology I	C+	2.33	4	9.32
Finite Mathematics	B	3.00	3	9.00
Foundations of Sociology	A	4.00	3	12.00
Macroeconomics	B+	3.33	3	9.99
			16	49.31

The 49.31 grade points are divided by 16 credits and yield a semester grade point average of 3.08.

To calculate a cumulative grade point average, the same procedure described above to calculate the semester grade point average is used. The only difference is that all graded credits and points earned at Plymouth State University are used. The PSU transcript keeps a running tally of the cumulative grade point average as well as of the semester grade point average.

**Administrative Failure:** The notation AF stands for administrative failure. This is placed on a student's transcript when an instructor does not have enough information to assign a letter grade in a graded course. The administrative failure is usually a student's failure to drop a course they stopped attending. An AF counts as an F grade in the calculation of grade point averages. It is not a reason for a course withdrawal.

**Incompletes:** A grade of Incomplete (IC) should be awarded at the discretion of the course instructor in the instance that a minimal proportion of the total class work needs to be completed, such as an exam, paper, or project. The instructor, in consultation with the student, determines the conditions for the granting and completing of the Incomplete and files a Request for Incomplete Grade form with the Registrar's Office before the final grades are due. Forms are available online at [plymouth.edu/registrar/forms](http://plymouth.edu/registrar/forms). An IC is not a permanent grade; the Incomplete must be completed by the final day of classes of the subsequent semester (fall and Winterim Incompletes are due in the spring; spring and summer Incompletes are due in the fall), or by the date specified by the instructor, whichever comes first. If the Incomplete is not completed by the expiration of this period, a grade of F will be recorded, unless the instructor stipulates a different grade. Requests for extending the completion date of an IC grade must be approved by the associate vice president for Undergraduate Studies and must be signed by both the student and instructor. A student may not graduate with an Incomplete on his or her transcript. Forms required for a student to be granted an Incomplete are turned in by instructors when final grades are due. Please note that a *student with an outstanding incomplete in a course may not register for that course*.

**Pass/No Pass Courses:** Some courses at Plymouth State University are designated in their course descriptions as being Pass/No Pass (P/NP). Credits earned by passing these courses are added to the total credits earned (graded and transfer courses as well as credit-by-exam). Pass/No Pass credits also are included in credits attempted. Credits earned in P/NP courses do not affect the grade point average. Matriculated students are not permitted to take more than one-sixth of their total degree program credits on a P/NP basis. Only courses identified as P/NP in the course description may be graded Pass/No Pass.

**Temporary Grades:** The NG on a grade report stands for no grade submitted. It means that the Registrar's Office did not receive a grade from the instructor by the time grade reports

were created. The student is welcome to contact the instructor in this case. When the grade is received by the Registrar's Office, student transcripts are updated. An E stands for extended evaluation; it denotes a course whose completion stretches across more than one semester. NGs and Es must be completed by the final day of classes of the subsequent semester (fall and Winterim NGs and Es are due in the spring; spring and summer NGs and Es are due in the Fall). If NGs and Es are not replaced with permanent grades by that time, a grade of F will be recorded on students' transcripts.

### Credits Attempted

If a student fails a course by earning either an F or an AF in a graded course, or an NP in a P/NP course, the credits that would have been earned if the course had been successfully completed are added to the transcript column titled Credits Attempted. Credits attempted reflect the grand total of credits earned through successful completion of courses and credits not earned because of unsatisfactory performance, as well as transfer and credit-by-examination. Students' academic standing is based on the number of credits attempted, as described below. Students should be aware that if a minimum number of credits is not successfully completed each semester at PSU, financial aid awards may be in jeopardy (see the Financial Aid section).

### Repeating Courses

Students are allowed to retake any course in which they earned a grade of C- or lower. Credits and grade points for the first grade will be deleted from the cumulative record, while the grade itself will remain on the transcript and the repeat noted with an "E" (Exclude) next to the grade. The course information will be listed in the usual manner the second time it appears on the transcript. The most recent grade counts even if lower than an earlier grade.

If the course grade is F, AF, or NP, students may also repeat the course at another college or university and transfer the credit into Plymouth State University. The transfer course must be equivalent to the course failed at PSU. Upon receipt of the transfer credit, the PSU grade of F or AF will be removed from the grade point calculation. The procedure that needs to be followed is detailed in the Transferring Credits to Plymouth State University section.

### Early Evaluation

To provide early evaluation for first-semester, first-year students (those who have attempted fewer than 12 credits), at the end of the first six weeks of classes, instructors of full-semester courses submit grades on these students' performance. These students are urged to discuss these grades with their advisors and instructors. After consultation with the advisor and instructor(s), these first-year students may drop full-semester course(s) within two weeks after notice of the early evaluation.

## Grade Reports

Final grades may be accessed via myPlymouth. To request a printed copy of a grade report, students must contact the Registrar's Office in writing. Grades are never given out over the telephone because of privacy regulations and may only be mailed to or picked up by the student.

## Transcripts

The University transcript is the student's permanent academic record. Ordinary transcript notations list courses taken and grades earned, as well as semester and cumulative grade point averages. Transcript notations are explained in the previous Grading System section.

Transcripts are provided without charge, though some restrictions apply. A statement of the transcript policy is posted at the Registrar's Office and on the Registrar's Web site. A transcript order form is available at the Office of the Registrar or may be downloaded from the Web. Transcript orders must be in writing or by fax, (603) 535-2724, and must include the following: full printed name, former names (if any), student ID and/or social security number, approximate dates of attendance at Plymouth State, address(es) to which the transcript should be mailed, current address and phone number, and the student's signature.

Transcripts cannot be faxed; they will be mailed to the address(es) students provide, or students may pick them up. Official transcripts are sealed and stamped "Official Transcript—Void If Opened." The use of official transcripts is usually restricted to the transferring of credit from one institution to another or to the formal verification of a student's academic career at Plymouth State University for some official purpose. If students merely wish to see their transcript for their own purposes, they may print an informal copy at any time using myPlymouth.

Please note that an official transcript cannot be sent if a student has a financial hold. If this is the case, the student will be notified by mail of the hold and the proper office to contact to clear the hold.

## Alternative Testing Arrangements for Students with Disabilities

Students with documented disabilities who require alternative testing arrangements should contact the Plymouth Academic Support Services (PASS) staff at least one full week prior to the scheduled test/exam date. This notification is necessary so that the student can contact the instructor and provide him/her with any necessary information from the PASS Office. This will provide the instructor with ample time to make needed arrangements.

## Academic Standing

All matriculated (degree-seeking) undergraduate students (full-time and part-time) have their academic standing assessed at the end of each fall and spring semester. Grades earned in Winterim and summer sessions do not alter academic stand-

ing, nor do changes in grades processed after the last day of the add period for the following regular semester. To be in good academic standing means that students have a cumulative grade point average (GPA) of at least 2.00—the minimum cumulative grade point average required for graduation. The standards used to place students in any one of the other three academic standing categories—Academic Warning, Academic Probation, or Academic Severance—are based on the cumulative GPAs students must meet or exceed at different cumulative credits attempted in order to be making satisfactory progress. Cumulative credits attempted include all graded, pass/no pass, and transfer courses, as well as credit-by-examination. When students are placed on Academic Warning, Probation, or Severance, an appropriate transcript notation is made.

## Academic Warning

Students whose cumulative GPAs fall into the ranges listed below for different numbers of cumulative credits attempted are placed on Academic Warning.

Cumulative Credits Attempted	Cumulative GPA
First semester	1.60–1.99
Less than 30	1.75–1.99

Students in this category receive a letter of Academic Warning, which advises them that they are not meeting the minimum grade point average required for graduation and that they are in danger of accumulating a record which will become increasingly difficult to correct as time goes on. The letter also advises them to discuss their progress with their advisors and to take full advantage of the services on campus for academic assistance. Students on Academic Warning may participate in sports and receive financial aid (excluding University-sponsored scholarships based on academic achievement). They may not enroll in overload credits.

## Academic Probation

Students whose cumulative GPAs fall into the ranges listed below for different numbers of cumulative credits attempted are placed on Academic Probation.

Cumulative Credits Attempted	Cumulative GPA
First semester	0.50–1.59
Less than 30	1.50–1.74
30–45.0	1.60–1.99
46–59.5	1.75–1.99
60–74.5	1.85–1.99
75–89.5	1.95–1.99
90–115.5	1.96–1.99
116 and above	1.98–1.99

The period of Academic Probation will be the next regular semester (fall or spring) of attendance. Students on Academic Probation will be given an Academic Probation contract, which restricts the number of credits they may take to 13, recommends repeating specific courses, and provides the semester GPA students



should achieve in the probationary semester to regain good academic standing. Students whose cumulative GPA falls in the probationary range are allowed two consecutive semesters on Academic Probation to attain good academic standing. The third consecutive semester their GPA places them in the Academic Probation range, they will incur an Academic Severance. Students on Academic Probation may receive financial aid (excluding University-sponsored scholarships based on academic achievement). Students who want to take more than 13 credits in a probationary semester must receive permission from the associate vice president for Undergraduate Studies (or designee).

### First Academic Severance

There are two situations that will result in a first Academic Severance:

1. The cumulative GPA is in the Academic Probation range for the third consecutive regular semester, **or**
2. The cumulative GPA falls into the ranges listed below for different numbers of cumulative credits attempted.

Cumulative Credits Attempted	Cumulative GPA
First semester	0.00–0.49
Less than 30	0.00–1.49
30–45.5	0.00–1.59
46–59.5	0.00–1.74
60–74.5	0.00–1.84
75–89.5	0.00–1.94
90–115.5	0.00–1.95
116 and above	0.00–1.97

Students who have been academically severed for the first time may not enroll in any course at Plymouth State University during the next regular semester (fall or spring) following the Severance action. The only exception is provided by the appeal mechanism. As explained below, students may appeal for immediate reinstatement, and, if the appeal is successful, may return the following semester on Academic Probation. **Students who were severed following their first semester at Plymouth State University are not eligible to appeal.**

Students who have been academically severed for the first time may be granted an opportunity, through either readmission or reinstatement, to demonstrate their ability and intention to succeed academically and to earn a degree from Plymouth State University.

1. **Reinstatement.** In the days following the Severance action, students, except those who were severed following their first semester at Plymouth State University, may appeal to the Academic Affairs Committee for immediate reinstatement. Students who wish to do this must submit a letter of appeal to the Undergraduate Advising Center. Instructions for writing this letter are sent by certified mail to severed students. They may also seek counsel from their academic advisors or from the staff of the Undergraduate Advising Center.

2. **Readmission.** Any time following the mandatory one semester away from Plymouth State University, students may apply to the Office of Admission for readmission. Readmission is not automatic. A student who was severed following two or more semesters of enrollment is usually required first to raise the cumulative GPA out of Severance range. This can be done by returning as a non-matriculated, part-time student and repeating courses in which grades of C- or lower were earned. Alternately, students may repeat courses at other colleges/universities that they failed at PSU to have the F removed from the PSU grade point average calculation. Prior arrangements must be made through the Undergraduate Studies Office.

Students, who were severed following their first semester at PSU, may reapply without having repaired their GPA; they must provide an explanatory letter as part of their readmission application.

Readmitted or reinstated students will be placed on Academic Probation for the next regular semester. If these students earn a 2.00 semester GPA for that semester, but fail to raise their cumulative GPA out of the Severance range, they are given a second probationary semester in which to do so.

### Second Academic Severance

Students who are academically severed a second time will be assigned to non-matriculated, part-time status. **Students may not appeal for reinstatement following a second Severance action.** Students who have incurred a second Severance, who had pre-registered for courses during initial registration the previous semester will be dropped from the courses in which they pre-registered. If students decide to return as continuing education students (see below), they must re-register.

Students who have been severed a second time have three educational options at Plymouth State University:

1. They may take courses as non-matriculated, part-time students through the Frost School of Continuing and Professional Studies for the purpose of lifelong education.
2. They may take courses as non-matriculated, part-time students through the Frost School of Continuing and Professional Studies in order to repair their cumulative GPA and to demonstrate their commitment to earning an undergraduate degree from Plymouth State University. Students who, through self-advised selective repeating of courses and taking of new courses, raise their cumulative GPA to 2.00 or above, may, no sooner than two academic years following the second Severance, apply for readmission to a degree program. Students who during these two years raise their cumulative GPA to 2.00 and complete all graduation requirements, may file an undergraduate Degree Request. Readmitted students will be placed on Academic Probation for the next regular semester.

3. Without having raised their GPA to 2.00, they may apply for readmission no sooner than seven academic years following the second Severance. If readmitted, these students may choose (a) to declare Academic Bankruptcy or (b) to repair their existing cumulative GPA.

If the cumulative GPA of any student readmitted following a second Severance falls below 2.00, that student will incur a third, and final, Severance.

### Third Academic Severance

Students who are academically severed a third time cannot earn an undergraduate degree from Plymouth State University. They are not eligible for reinstatement or readmission at any time in the future. Grades earned in Winterim or summer session will not be used to reverse such an action. These students may, for purposes of lifelong education, take courses as part-time, non-matriculated students.

### President's List, Dean's List, Honors List for Part-Time Students

Undergraduate students who earn a semester grade point average of 3.70 or above are named to the President's List for that semester. Those students who earn a semester grade point average between 3.50 and 3.69 are named to the Dean's List for that semester. To be eligible for either the President's List or the Dean's List, full-time matriculated students must have completed at least 12 credits, at least nine of which must confer grade points.

Undergraduate part-time students who earn a grade point average of 3.50 in their combined work in fall, Winterim and spring semesters are named to the Honors List for part-time students at the end of each academic year. To be eligible for this honor, students must attend as part-time matriculated students in any semester that academic year, must earn at least six credits in courses which earn grade points, must complete all such courses by the time grade reports are prepared after spring semester, and must achieve at least a 3.50 grade point average in graded courses.

### Honors Programs

Each year PSU students who are identified as among the best in their class participate in a university-wide Honors Program. Each semester these students may enroll in an honors section of one or more courses. Students choose from among several possibilities. Students completing two honors sections during the academic year and achieving a 3.00 overall grade point average receive the transcript designation "Honors" for that academic year.

Honors sections are not intended to be more work-intensive than regular sections. Students in honors sections indicate that low class enrollment (20-25 maximum) results in a high level of discussion, collaborative academic challenges, and the development of closer intellectual relationships in the classroom.

The Honors Program is overseen by a group of faculty known as the Honors Council. In addition, the Departments of Business and Psychology offer honors programs to their majors (see Department of Business and Department of Psychology).

### Privacy and Disclosure of Academic Records

A federal law, the Family Educational Rights and Privacy Act of 1974 (popularly known as the Buckley Amendment or FERPA), establishes certain rights for students with regard to their education records. In brief, the act provides students the right to inspect their personal education records (with some exceptions), the opportunity to contest the contents of their records, and protection from unauthorized disclosure of their education records to third parties outside the University. Basically, the University is not permitted to disclose personally identifiable information from the student's education record without the prior written consent of the student, or only under acceptable disclosure provisions in FERPA.

Access without prior approval of students is permitted to University faculty and staff with a need to have access to educational information; to appropriate federal and state officials with statutory authorization; to accrediting agencies and educational testing organizations; to the parents of dependent students; and, in an emergency, to other appropriate persons acting to protect the health and safety of students and others. At Plymouth State University, the education records of students are released to parents only upon written request by students or by the parents of dependent students with proof of dependency. The student would be notified if such a request is made.

Some educational records maintained by the University are not open to access by students: these include confidential letters of recommendation to which the student has waived access, the financial records which parents have submitted to the University, medical and counseling records used in providing treatment to the student, the records of the University Police department, records containing information on more than one student, and records in the possession of the maker that are not accessible to other individuals. This last exception includes, for instance, the grade books of instructors and the desk files of faculty and administrators.

The University is permitted to release the following "directory information" without the prior consent of the student: name, place and date of birth, enrollment status, most previous educational institution attended, campus address, e-mail address, phone number, degree, field of study, grade level, participation in recognized activities and sports, and height and weight of athletic team members. Grades are considered "directory information" to the extent of publishing honor rolls and in selecting students to honor societies or to receive academic scholarships. Students have the right to restrict disclosure or release of "directory information." Requests must be submitted in writing to the Dean of Student Affairs within 10 class days after the beginning of fall or spring term. See the current Student Handbook for



further information: [plymouth.edu/stulife/handbook/handbook.html](http://plymouth.edu/stulife/handbook/handbook.html). Important information regarding judicial records is also included in the Student Handbook: [plymouth.edu/stulife/handbook/judicial/records.htm](http://plymouth.edu/stulife/handbook/judicial/records.htm).

### Catalog Policy

To plan a curriculum, students should use the Academic Catalog printed the year they entered the University or any subsequent Catalog. It is the **students' responsibility** to use this Catalog to outline course requirements in their curriculum. The University reserves the right to add, change, or delete curricular offerings.

The Catalog to be used to determine graduation requirements may be no older than the academic year of official admission, nor more than seven years old. Readmitted students seeking teacher certification need to follow the most current Catalog to satisfy state teacher certification requirements. Readmitted students, in programs other than teacher certification, may use the Catalog of original admission if the Catalog is less than seven years old and if it is possible for students to complete the degree before the seven-year limit on that Catalog expires. If these two conditions do not exist, a more recent Catalog must be used. Readmitted students will receive a Catalog Memo from the associate vice president for Undergraduate Studies at the time of readmission, stating the Catalog to be used to determine graduation requirements.

*Note: Students who entered in 2003–2004 or earlier, but elect to follow the 2005–2006 or subsequent Catalog for their major requirements, must fulfill the General Education requirements of the 2003–2004 Catalog. Students who entered in 2004–2005, but elect to follow the 2005–2006 or subsequent Catalog for their major requirements, must fulfill the General Education requirements of the 2004–2005 Catalog.*

Students who have not earned a bachelor's degree at Plymouth State University and who are readmitted after an absence of seven or more years may wish to exercise their option to declare Academic Bankruptcy (see policy within the Withdrawal from the University, Readmission, Reactivation section). The full academic files of non-graduated students are kept for seven years; transcripts are always available.

### Declaring Majors, Options, Minors

Students may declare an academic major when applying for admission to the University, or they may enter without having chosen a specific major. In the event that a student chooses a major or changes a major after being admitted to Plymouth State University, the student needs to file a Declaration or Change of Academic Major and/or Option form with the Registrar's Office. This form requires the signature of the Department Chair of the new major. Once this form is complete, the student should return the form to the Registrar's Office for processing. Typically, a new advisor from the new major department is either chosen by the student or assigned.

Major/Option Declaration forms are available outside the Registrar's Office or may be downloaded from the forms section of the Registrar's Web site. Please note that students wishing to enter the Interdisciplinary Studies major must have a minimum of 45 credits remaining to be fulfilled in their degree program. Major/Option Declaration forms are also used to declare options within a major. Options must be chosen within some majors, while in others the options are entirely elective. In either event, the procedure for completing the form is the same as that outlined above in regard to declaring the major itself. Where there are several options available within a major, it is advisable for students to choose the one that best suits their interests rather than to pursue several overlapping options jointly. If a student does choose to pursue a second or subsequent option, at least 12 credits must be different from the first option. To complete an option a student uses the same catalog as the major. The completion of options is noted on students' transcripts.

To declare an academic minor, the student needs to file a Declaration of an Academic Minor form. This form requires the signatures of the student's advisor and an appropriate representative of the department or council offering the minor. Completed forms are returned to the Registrar's Office.

To drop an academic minor or option, students should submit to the Registrar's Office: a written statement specifying their request and include their printed name, student ID, date, and signature.

### Double Majors, Dual Degrees, Second Degrees

Students may pursue two Bachelor of Science or two Bachelor of Arts majors as long as they meet the requirements of both programs. To accomplish this goal within the minimum number of credits required requires close communication with advisors from both majors.

If students wish to receive two different degrees (e.g., a Bachelor of Arts degree and a Bachelor of Science degree), students need to complete at least the equivalent of 30 credits of coursework beyond those required for the first degree. The degrees must be from different disciplines, i.e., students may not earn both a BA in Mathematics and a BS in Mathematics. To ensure that students can adequately handle the increased demands of seeking two different degrees, it is strongly suggested that students consult with advisors representing both programs.

Students who already hold a Bachelor of Science degree or a Bachelor of Arts degree from Plymouth State University may apply for readmission for the purpose of retroactively adding a major to that degree; they will follow the Academic Catalog current at the time of readmission. The major, minor, and cumulative grade point averages that are earned at the time that a Plymouth State University degree is awarded may not be changed after the degree is awarded. This includes repeating courses at PSU or transferring courses to PSU.

The idea of retroactively adding a major pertains to PSU graduates whose second program is a degree program of the same type (e.g., a second major in a Bachelor of Science program or a second major in a Bachelor of Arts program). If the second major is in a different degree program (e.g., a Bachelor of Arts major degree program when they already hold a Bachelor of Science degree or vice versa), students must meet the following requirements:

- Students must complete at least 30 credits of coursework at PSU subsequent to the completion of the first bachelor's degree.
- All of the requirements of the second degree program, including General Education requirements that were not fulfilled in the first degree program, must be fulfilled.
- At least half of the courses in the new major must be completed at PSU.
- Students must comply with all other PSU academic regulations.

The major, minor, and cumulative grade point averages that are earned when a student returns to PSU to add a major, option, or minor, shall not change the record established for awarding prior degree(s) from Plymouth State University.

Students who already hold a Bachelor of Science or a Bachelor of Arts degree from any other college or university are allowed to pursue any Plymouth State University degree program once admitted. At least half of the courses in the new major program must be taken at PSU, and students must complete a minimum of 30 credits while at Plymouth State University. Students who already hold a degree from elsewhere are allowed to transfer in credits just as any other students are allowed to do (see Transferring Credits to Plymouth State University).

Plymouth State University graduates also may apply for readmission for the purpose of retroactively adding a minor or option. Students seeking a new minor will follow the Catalog current at the time of readmission. Since options are based on major degree programs, students will follow the original Catalog whenever possible. When it is not possible, they will follow the Catalog current at the time of readmission and will have to complete any outstanding major and General Education requirements. Students must be readmitted before they may take or transfer courses for the major, option, or minor that is being retroactively added.

### **Withdrawal from the University, Readmission, Reactivation**

Prior to leaving, students should inform the vice president for Student Affairs of their intention to withdraw from the University; a Withdrawal form should be completed. Withdrawing from the University prior to the beginning of the final examination period, when all University obligations have been met, means that students' academic records are not adversely affected by the semester in which they withdraw. A notation of W will be recorded on students' transcripts. If stu-

dents withdraw after the beginning of the final examination period, without taking final examinations, failing grades will be recorded on students' transcripts for the semester in which they withdrew.

Students who wish to re-enter Plymouth State University as matriculated (degree-seeking) students in a subsequent semester must reapply for admission through the Office of Admission. Students who wish to be readmitted into a teacher education program leading to teacher certification will need to follow program guidelines in the most recent Academic Catalog at the time of readmission. To qualify for readmission students must meet the grade point average requirement for the total credits attempted as indicated in the *Academic Standing* section.

Students who have withdrawn from the University or who have been withdrawn by the University, and who wish to complete their degree program without taking further classwork at PSU, should contact the Degree Auditor to be reactivated for graduation. The Auditor will send a Degree Request, but students will not be placed on the graduation file until the Degree Request is received and approved by the Auditor. Students reactivated for graduation only are not readmitted to take classes at the University. Those wishing to resume undergraduate coursework at PSU must apply for readmission through the Office of Admission.

### **Academic Bankruptcy**

An undergraduate student who is seeking readmission to the University may choose to have all Plymouth State University course work that is at least seven academic years old be exempt from the calculation of the grade point average. In choosing this option, such a student would receive credit for courses in which a grade of C or better was earned; the grades for such courses, however, would not be included in the computation of the grade point average. The grades for these courses will be removed, changed to XC and marked "I" (Include). All grades lower than C will remain on the transcript and will be marked "E" (Exclude). The declaration of Academic Bankruptcy must be made to the Undergraduate Studies Office at the time of re-enrollment and can be claimed no more than once in a student's career at the University.

### **Leave of Absence and Return Policy**

Students may request a leave of absence from studies for one or two consecutive semesters' absence from Plymouth (this policy applies only to continuous fall and spring semesters; winter and summer sessions are not considered to be a part of a student's regular continuous enrollment). A leave of absence is appropriate if the student intends to return to the University following a temporary absence for compelling reasons, which may include but are not limited to: military service, family emergencies, or medical reasons. Eligible students who apply for and receive a leave of absence retain their status as an active student, which guarantees retention of their Plymouth email account, access to myPlymouth, and the ability to register online. No readmission

application or fees are required if the student re-enrolls for a fall or spring semester immediately following the leave of absence. If there is no intent to return to the University, or if a student is unable to return following the leave of absence period, the regular withdrawal procedure should be followed. If the university approves a leave of absence, a student receiving federal loans retains their in-school status for a maximum of 180 days.

### Eligibility for a Leave of Absence

To be eligible for a leave of absence the following criteria must be met:

1. The student must be matriculated during the semester in which the leave of absence is requested.
2. The student must be in good academic standing.
3. The student must not be subject to university initiated disciplinary action.
4. The student must have no restrictions/holds on their registration.
5. The student must provide documentation to support the leave of absence request.

### Additional Conditions for a Leave of Absence

1. Students have the right to request a leave of absence more than once, but may not exceed a total of two years for all approved requests.
2. Students have the right to return earlier than the initially agreed upon return date.
3. Students who do not return to Plymouth at the end of the leave of absence period will be withdrawn from the University and must follow all procedures for readmission if, in the future, they seek to re-enroll as a matriculated student.
4. Students are not eligible to receive financial aid payments from the University during the leave of absence period.
5. Plymouth State University will report any student granted a leave of absence as "approved leave of absence" in response to inquiries for enrollment verification.
6. Students may not live in on-campus residential facilities, attend classes, or seek/maintain University-sponsored employment during a leave of absence. Students may not enroll in Winterim or summer sessions if those alternative sessions fall within the time period of the requested leave of absence.
7. Students are responsible for understanding all implications of a leave of absence, including but not limited to the following:
  - Potential loss of financial aid
  - Potential loss of health insurance coverage

### Process for Requesting a Leave of Absence

To request a leave of absence a student must fill out a Plymouth State University *Request for Leave of Absence and Return* form. Upon completion, the form must be reviewed and approved by both the associate vice president for Undergraduate Studies and the vice president for Student Affairs.

### Steps for Returning from a Leave of Absence

A student returning from a leave of absence reactivates their matriculation by contacting the Registrar.

## Graduation Requirements

All students shall be responsible for meeting the academic standards established for the course of study in which they are enrolled. These standards shall be the only basis for evaluating students' academic performance. Students are responsible for completing all work required for graduation and scheduling all necessary courses.

Students have the personal responsibility for making sure that, by graduation time, they meet the General Education, major field, grade point average (cumulative, major/minor), and total credit hour requirements defined by the University and their major department.

**Major and Minor Grade Point Averages:** All students must earn a minimum grade point average of 2.00 in their major by the time of graduation. Some programs stipulate a higher major grade point average that must be earned in the main academic discipline of the major program. A student's major grade point average will be based on all specific courses listed as required (except EN 1200), any other courses elected beyond the required minimum number from an identified group, plus any others in the central discipline which are elected.

Students must earn at least a 2.00 grade point average in their minor. One exception is the Pre-Law minor, which requires a 3.00 grade point average.

### Degree Completion

To complete degree requirements at Plymouth State University, students need to do the following:

- Complete all General Education requirements
- Complete the foreign language proficiency if seeking a BA
- Complete all major degree requirements
- Complete the number of credits required in the student's chosen degree program (minimum of 120 semester credits)
- Complete at least 30 credits of course work at Plymouth State University
- Earn an overall cumulative grade point average of 2.00 or higher in all coursework
- Earn the grade point average required in the major (minimum of 2.00)
- Earn the grade point average required in the minor if a minor has been declared (minimum of 2.00).

If a required course is no longer offered, a substitute can be identified by the advisor and by the department in which the student is majoring. To do this, a Student Request form is completed and approved by the respective department chair and the Undergraduate Studies Office; forms are available at the Undergraduate Studies Office.

## Course Substitution Policy for Students with Disabilities

Course waivers will not be granted. However, appropriate course substitutions may be made if circumstances warrant and/or there is a history of previous effort to meet the requirement.

1. The student shall provide documentation of the disability to the Plymouth Academic Support Services (PASS) Counselor for Students with Disabilities to review.
2. The student shall schedule an appointment with the Counselor for Students with Disabilities to discuss or verify the documentation of the disability.
3. The student shall submit a Student Request form to the associate vice president for Undergraduate Studies that includes the following information:
  - a. request for specific course substitution,
  - b. brief description of disability,
  - c. history of previous efforts to complete the requirement,
  - d. signatures from the Counselor for Students with Disabilities, the Chair of the student's major department, and the student's advisor.
4. The associate vice president for Undergraduate Studies will, in a timely manner, make a decision to approve/disapprove the request for the course substitution.

For example, American Sign Language I and II may satisfy the foreign language requirement of the Bachelor of Arts degree but they do **not** satisfy the Global Awareness Connection.

## Degree Requests and Audits

Plymouth State University graduates students three times per year—December, May, and August. Diplomas are printed three times a year—December, May, and August. Students who are completing their degrees need to file a Degree Request. The deadlines for submitting the Degree Request are:

Students completing degree in	Submit their Degree their Request no later than
May	November 1
August	November 1
December	April 1

Degree Requests will be accepted up to one month beyond the deadline; however, there will be a \$50 late fee. Degree Requests received after this time will be interpreted as requests for graduation in the subsequent year.

A final audit will be completed by the Degree Auditor after the student's last semester grades have been posted.

Previous degree audits for readmitted students are no longer valid; a new audit will be conducted when a student files a new Degree Request. The official degree audit of a student who does not graduate expires when that student's Catalog expires. The associate vice president for Undergraduate Studies, the

Registrar, and the chair of the major department will consider appeals for exception to this policy.

## Graduation Honors

Bachelor's and associate degree recipients who have maintained a cumulative average of 3.75 or above for work done at Plymouth State University are graduated summa cum laude. Bachelor's and associate degree recipients who have maintained a cumulative average of 3.50 through 3.74 are graduated magna cum laude. Bachelor's and associate degree recipients who have maintained a cumulative average of 3.25 through 3.49 are graduated cum laude. Degree candidates must have accumulated at least 45 credits (24 credits for the associate degree) at Plymouth State University to be eligible for graduation honors. Recognition is noted on the student's diploma and permanent record.

## Participation in Commencement Ceremonies

Students' eligibility to participate (walk) in the commencement ceremony is evaluated separately from the completion of their degree requirements. Students may participate in a commencement ceremony only once for a specific degree. Their name will be printed in the commencement program the same year they participate. Students may choose to participate in an upcoming commencement ceremony, knowing that they have not completed all degree requirements, as long as they meet the participation criteria. Students may choose, as an alternative, to wait to participate the year they complete their degree requirements.

All active matriculated (degree-seeking) students with at least 90.0 credits earned as of October 1 of the fall preceding the baccalaureate commencement ceremony (30.0 credits for the associate) are automatically eligible to walk. These students will be notified and will then need to file a Commencement Participation form by the end of the fall semester indicating whether or not they wish to participate.

Students with less than 90.0 credits as of October 1 who wish to participate in the ceremony must first meet with the Undergraduate Advising Office to review their detailed plan for completing their degree requirements. Then they must submit a written request to walk with a copy of their plan, which shows completion no later than the fall semester following the commencement ceremony, to the associate vice president for Undergraduate Studies. If their request is approved, they will be notified. They will then need to file a Commencement Participation form.

**Only students who have filed "yes" on their Commencement Participation form will appear on the official list for the commencement ceremony and printed program.**

## Academic Programs



## Academic Programs

*Options:* Required choice of alternate tracks within a major

*Elective Options:* Options not required in the major

BA: Bachelor of Arts

BFA: Bachelor of Fine Arts

BS: Bachelor of Science

### Degree Programs—Alphabetical

Bachelor Degree	Offered By
Accounting, BS	Department of Business
Adventure Education, BS	Department of Health and Human Performance
Anthropology/Sociology, BA	Department of Social Science
<i>Options in:</i>	
Anthropology	
Sociology	
Art, BA	Department of Art
<i>Options in:</i>	
Ceramics	
Drawing	
Graphic Design	
Painting	
Printmaking	
Sculpture	
Art, BFA	Department of Art
<i>Options in:</i>	
Graphic Design	
2D Studio Art	
3D Studio Art	
Art Education (K–12), BS	Department of Art
Art History, BA	Department of Art
Athletic Training, BS	Department of Health and Human Performance
Biology, BA	Department of Biological Sciences
Biology, BS	Department of Biological Sciences
<i>Elective Option in:</i>	
Biological Science Education (7–12)	
Biotechnology, BS	Department of Biological Sciences
Business Administration, BS	Department of Business
Chemistry, BS	Department of Atmospheric Science and Chemistry
<i>Options in:</i>	
Biochemistry	
Chemistry Education (7–12)	
Environmental Chemistry	
General	
Childhood Studies, BS	Department of Education
<i>Elective Option in:</i>	
Teacher Certification (K–8)	
Communication Studies, BA	Department of Communication and Media Studies
<i>Options in:</i>	
Film and Media Studies	
Professional Communication	
Computer Science, BS	Department of Computer Science and Technology



Criminal Justice, BA	Department of Criminal Justice
Early Childhood Studies, BS	Department of Education
<i>Options in:</i>	
Contract	
Early Care and Education	
Teacher Certification (K–3)	
English, BA	Department of English
<i>Options in:</i>	
Contract	
Literature and Film	
Teacher Certification (5–12)	
Writing	
Environmental Biology, BS	Department of Biological Sciences
Environmental Planning, BS	Department of Social Science
Environmental Science and Policy, BS	Department of Environmental Science and Policy
<i>Options in:</i>	
Community and Environment	
Environmental Science	
Finance, BS	Department of Business
French, BA	Department of Languages and Linguistics
Geography, BS	Department of Social Science
Health Education, BS	Department of Health and Human Performance
<i>Elective Options in:</i>	
Health Promotion	
School Health (K–12)	
History, BA	Department of Social Science
Humanities, BA	Humanities Council
Information Technology, BS	Department of Computer Science and Technology
Interdisciplinary Studies, BA	Interdisciplinary Studies Council
Interdisciplinary Studies, BS	Interdisciplinary Studies Council
Management, BS	Department of Business
<i>Options in:</i>	
General Management	
Human Resource Management	
Marketing, BS	Department of Business
Mathematics, BA	Department of Mathematics
Mathematics, BS	Department of Mathematics
<i>Elective Options in:</i>	
Actuarial Mathematics	
Applied Mathematics	
Middle School Teacher Certification (5–8)	
Secondary Teacher Certification (7–12)	
Meteorology, BS	Department of Atmospheric Science and Chemistry
Music, BA	Department of Music, Theatre, and Dance
<i>Options in:</i>	
Contract	
Music Technology	
Piano Performance and Pedagogy	
Voice Performance and Pedagogy	
Music Education (K–12), BS	Department of Music, Theatre, and Dance

Philosophy, BA	Department of Philosophy
Physical Education, BS	Department of Health and Human Performance
<i>Options in:</i>	
Applied Health Fitness	
Contract	
Physical Education and Health Education	
Teacher Certification (K–12)	
Sport Physiology	
Teacher Certification (K–12)	
Political Science, BA	Department of Social Science
Psychology, BA	Department of Psychology
Psychology, BS	Department of Psychology
<i>Options in:</i>	
Contract	
Developmental	
Mental Health	
Psychology and Law	
Public Management, BS	Department of Social Science
Social Science, BS	Department of Social Science
<i>Options in:</i>	
Contract	
Social Studies Teacher Certification (5–12)	
Social Work, BS	Department of Social Work
<i>Elective Options in:</i>	
Aging Services	
Child and Family Services	
Health Services	
Mental Health Services	
Social Services for Spanish Speaking Communities	
Spanish, BA	Department of Languages and Linguistics
Theatre Arts, BA	Department of Music, Theatre, and Dance
<i>Options in:</i>	
Acting	
Contract	
Dramatic Writing	
Music Theatre Performance	
Theatre History and Literature	
Theatrical Design/Tech	
Tourism Management and Policy, BA	Department of Social Science

## Degree Programs—Departmental

Department	Bachelor Degree
Art	Art, BA Art, BFA Art Education, BS Art History, BA
Atmospheric Science and Chemistry	Chemistry, BS Meteorology, BS
Biological Sciences	Biology, BA Biology, BS Biotechnology, BS Environmental Biology, BS
Business	Accounting, BS Business Administration, BS Finance, BS Management, BS Marketing, BS
Communication and Media Studies	Communication Studies, BA
Computer Science and Technology	Computer Science, BS Information Technology, BS
Criminal Justice	Criminal Justice, BA
Education	Childhood Studies, BS Early Childhood Studies, BS
English	English, BA
Environmental Science and Policy	Environmental Science and Policy, BS
Health and Human Performance	Adventure Education, BS Athletic Training, BS Health Education, BS Physical Education, BS
Humanities Council	Humanities, BA
Interdisciplinary Studies Council	Interdisciplinary Studies, BA or BS
Languages and Linguistics	French, BA Spanish, BA
Mathematics	Mathematics, BA Mathematics, BS
Music, Theatre, and Dance	Music, BA Music Education, BS Theatre Arts, BA
Philosophy	Philosophy, BA
Psychology	Psychology, BA Psychology, BS
Social Science	Anthropology/Sociology, BA Environmental Planning, BS Geography, BS History, BA Political Science, BA Public Management, BS Social Science, BS Tourism Management and Policy, BA
Social Work	Social Work, BS

## Foreign Language Requirement for the Bachelor of Arts Degree

The minimal foreign language requirement for all Bachelor of Arts students, regardless of major, is proficiency in a foreign language as demonstrated by one of the following:

1. Satisfactory completion of one year of one language at the university level. American Sign Language I and II (LL/SE 2850-2860) fulfill this one year of one language requirement; however, American Sign Language does not satisfy any General Education requirement.
2. Satisfactory completion of a departmental placement test and Intermediate French II (FR 2020), Intermediate German II (GR 2020), Intermediate Latin II (LA 2060), or Intermediate Spanish II (SP 2020)
3. Satisfactory completion of one three-credit course at the 3000 level or above
4. Satisfactory completion of a proficiency test (see Advanced Placement and CLEP in the Appendix).

The foreign language requirement is satisfied for BA candidates who are native speakers of a language other than English. No credit is awarded.

Students are strongly encouraged to complete their foreign language requirement in their **first year** in order to build on their high school experience. *It is important that the language requirement be satisfied during the first or second year.* All students are encouraged to take a foreign language to satisfy the Global Awareness Connection.

## General Education Program

Plymouth State University provides opportunities for students to cultivate the mind in ways that will lead them to full awareness as adults, and to lives in which occupational achievement is balanced by social responsibility, cultural experience, and personal happiness. The University measures its excellence, not by the quality of students who enter its doors, but by the quality it adds to those who graduate. Because of this commitment, Plymouth State University believes that every student must receive a strong general education as well as specialized instruction in a field. The undergraduate General Education program gives students a broad perspective on ideas and an awareness of diverse human experiences and cultures.

The General Education program is meant to ensure that students develop the skills necessary for academic success and lifelong learning, an appreciation of the various ways scholars consider and understand human experience, and an appreciation of the process by which different approaches to scholarship can be brought to bear on the same problem. Courses taken to ensure breadth of knowledge emphasize the relevance and application of methods of inquiry and content to students' lives.

## Skills

To live and learn in a multicultural, multimedia, multidimensional world, students need certain skills. These are the competencies expected of an educated person, the skills needed for lifelong learning. In this General Education program, the following skills are developed in meaningful contexts:

**Critical Thinking:** The abilities to compare, contrast, analyze, and synthesize; to challenge underlying assumptions; to take imaginative leaps and intellectual risks; and to solve problems creatively and effectively.

**Reading:** The achievement of advanced literacy; that is, the ability to comprehend written material within a variety of genres, and to articulate one's response verbally and in writing.

**Quantitative Reasoning:** The ability to analyze quantitative materials and use quantitative techniques to solve problems.

**Writing:** Development of a writing process that includes the ability to pre-write (brainstorm, outline, take notes, free-write) on a selected topic; to prepare, assess, and organize information; and to compose, revise, and edit a polished product.

**Speaking and Listening:** The ability to use both verbal and nonverbal skills to communicate effectively in one or more languages, to listen actively, and to take part respectfully in group discussions.

**Conducting Research:** The ability to locate, comprehend, and synthesize information; and to understand what constitutes reliable evidence for decision making.

**Working with Information Technology:** The ability to perform searches; to use word processing and spreadsheets; to work with database management systems and presentation software; to work with software to enhance the creative process; and to make effective use of software to organize information and to communicate with others.

**Collaborating with Others:** To know, understand, and respond to others' feelings and perspectives; to work and learn in teams to enhance interpersonal relationship skills; and to develop an awareness of leadership approaches and the ability to influence others.

## Components of the Program

In Plymouth State University's General Education program, students take three First Year Experience courses which introduce the skills listed above. The skills are then further developed and refined in the other components of the program: the Directions courses and the Connections courses, as well as in the major. Students take two courses in each of four Directions. These courses are designed to excite students about learning and to give them breadth of knowledge and experience with different approaches to learning. Though taught by the various

academic departments, they are required of no major and are open to all students. Connections courses help students develop more advanced academic skills, appreciation of difference, and appreciation of wellness within specific academic contexts. Three of the seven Connections must be explored within the context of the major; the other four may be explored in that context or in some other.

### Overview of Three Components

First Year Experience		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
<b>Directions</b>		
CTDI	Creative Thought	6
PPDI	Past and Present	6
SIDI	Scientific Inquiry	6–8
SSDI	Self and Society	6
<b>Connections</b>		
DICO	Diversity*	3
GACO	Global Awareness*	3
INCO	Integration*	3
WECO	Wellness*	3
QRCO	Quantitative Reasoning in the Disciplines**	
TECO	Technology in the Disciplines**	
WRCO	Writing in the Disciplines**	
<b>Total</b>		<b>45–47</b>

\* These Connections may be double counted with a major, minor, or any other General Education requirement.

\*\* These Connections are three-credit experiences taken as part of the major and hence add no credits to those required of the major.

### Description of the Three Components

#### First Year Experience

The goals of the First Year Experience component are to connect students to life in an academic community and to introduce and practice in a meaningful context the skills listed above. The component consists of the following three courses to be taken during the first year:

#### Composition 3 credits

The Composition requirement is intended to help students become responsible writers who can take charge of their own writing process. It is satisfied by the course EN 1200 Composition or its equivalency.

Students learn how to draft, respond to feedback from peers and instructor, revise, and edit successful college prose. By the end of the course, they should be able to write essays that are unified by a central thesis, well-developed in carefully organized paragraphs with vivid details, and grammatically appropriate with effective sentence structure and correct mechanics.

Students also learn to read comprehensively and effectively in order to relate ideas and arguments to their writing and thinking. They are expected to summarize different kinds of texts, paraphrase the ideas of someone else, analyze others' arguments and positions, compare and contrast ideas, and generate their own thoughts and ideas following research and observation. Students are required to engage in library research and to write papers based on their research. Thus the General Education skills being given special emphasis in this course are **writing, reading, conducting research, and collaborating with others.**

#### First Year Seminar 3 credits

During the first semester, all first year students, including those transferring in fewer than 24 credits, take the course IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry. This course introduces students to the concepts of general education and the academic community and to the skills educated people use to generate and address important questions. Using critical thinking skills and basic tools of gathering and evaluating information, students and the instructor together explore a specific question which challenges contemporary thinkers. The question varies across sections of the course.

The First Year Seminar is a cornerstone course, through which students begin to build the repertoire of intellectual skills needed for university-level work. The skills are not taught in isolation but rather in the context of the topic or problem of the course. Assignments and activities introduce all of the skills listed above, but special emphasis is given to **critical thinking, conducting research, working with information technology, writing, speaking and listening, and collaborating with others.**

#### Mathematics Foundations 3 credits

Through the Mathematics Foundations requirement, students become aware of the importance of mathematics and its application to fields as diverse as art, music, and science. It is satisfied by a mathematics course numbered MA1500 or above, or by a mathematics course that is equivalent to MA 1500 or above, including credit-by-exam as explained below.

Mathematics Foundations courses focus on problem solving using the language of mathematics and on developing students' ability to reason quantitatively in diverse contexts. Students learn to reduce complex problems to their fundamentals using algebra and geometry.

The Mathematics Foundations requirement enables students to make connections between mathematics and their own lives

and to explore the roles of mathematics in society, culture, and politics. General Education skills given special emphasis are **quantitative reasoning, critical thinking, and working with information technology**.

Students may demonstrate proficiency in mathematics by recording, under the credit-by-examination policy, credits for a satisfactory performance on an AP, CLEP, or DANTES examination (see Appendix). Mathematics course work for which equivalent AP, CLEP, or DANTES credit has been received will not be granted credit.

Transfer students may demonstrate proficiency in mathematics by recording mathematics transfer credits that are equivalent to Plymouth State University courses. In cases where there is no equivalent course, the transfer credits must be deemed to be at a level equivalent to MA 1500 or higher by the Director of Curriculum Support and the mathematics department chair. Mathematics course work at PSU for which equivalent transfer credit has been recorded will not be granted credit.

If a student fulfilled the Mathematics Proficiency (as indicated in the 1998–1999 Catalog) by August 31, 1999, and chooses to change to the 1999–2000 or subsequent Catalog, the requirement to take a Mathematics Foundations course will be waived.

**Mathematics Placement Examination.** The Department of Mathematics gives a placement examination. Students who wish to demonstrate mastery of algebra as possible prerequisite for certain mathematics courses, (e.g., MA 2140 or MA 2490) or other courses at Plymouth State University that have an algebra mastery prerequisite, take the Mathematics Placement Exam. Those students who fail to show competency on the Mathematics Placement Exam may study algebra independently and retake the exam at a subsequent offering of the exam, or they may register for MA 1800 College Algebra. The Mathematics Placement Exam is scored at three levels:

**Level 1:** Student should complete MA 1800 College Algebra before entering MA 2140 or MA 2490.

**Level 2:** Student meets the prerequisite for MA 2140 Elementary Functions or MA 2490 Applied Calculus I.

**Level 3:** Student meets the prerequisite for MA 2550 Calculus I.

The Mathematics Placement Exam is given during orientation and at least once during the regular semester. Students in programs or majors that require courses with this prerequisite should take the Mathematics Placement Exam during orientation.

### Directions

The Directions component is intended to introduce students to different ways of considering and understanding human experience which they can apply as they seek meaning in their lives. Directions courses challenge them to see how different

perspectives shape the ways in which people interpret ideas and experiences to construct meaning. They emphasize connections between the world of ideas and the “real world.”

Rather than introducing a whole academic discipline, these courses focus on a particular issue or problem or topic of interest within the discipline, especially a topic relevant to students’ own lives. Ideally and whenever possible, alternative perspectives and approaches are woven into the course. No Directions course is required as part of any major.

The four Directions essentially represent four different approaches to learning, defined by a combination of method of inquiry and content. They are intended to further strengthen the academic skills upon which the First Year Experience is based. Different Directions emphasize different of these, but among them all skills are included. Because these skills are useful in all academic work, students are encouraged to take Directions courses early. Ideally all should be completed by the end of the second year.

Students must take two courses in each of the Directions categories. Directions courses will be a minimum of three credits. Some, for example, Scientific Inquiry courses involving laboratory work, may be more.

### Creative Thought Directions

6 credits

**People need to be creative in order to thrive in our complex and changing world.**

People need to understand the creative processes that lead to the generation of ideas and to engage in new interpretations of existing ideas. Creative Thought courses encourage students to recognize beauty in its many manifestations and to become aware of formal elements of creative expression.

These courses also encourage students to view themselves as creative beings, to appreciate creativity in others, and to regard creativity as an essential component in all areas of human endeavor. In these courses, students develop and value perseverance and a tolerance for ambiguity. Students are challenged to appreciate aesthetic forms, to use their imaginations, and to develop the skills and attitudes that allow creativity to flourish: independence and non-conformity, the ability to organize and reorganize information, and the confidence to think in new ways. Creative Thought courses emphasize the skills of **critical thinking, reading, writing, listening and speaking, and working with information technology**.

### Past and Present Directions

6 credits

**In order to comprehend the present and envision the future, we must understand the past.**

Cultures and societies discern time and construct chronologies of significant events to explain the past, comprehend the present, and envision the future. By examining issues and events that are currently impacting students’ lives, Past and Present courses explore how people interpret causes and effects within events.



These courses encourage students to realize that different times shape different views of the world. For students to realize that all fields of knowledge are subject to change, they need to study the changes that have taken place within those fields. They also need to understand the dialectic movement between the past and present: just as the past shapes the present, so does the present shape our understanding of the past. Past and Present courses emphasize the skills of **reading, writing, speaking and listening, critical thinking, and conducting research.**

#### Scientific Inquiry Directions

6–8 credits

**The methods of science are powerful tools with which we can attain a clearer understanding of the world.**

In the modern world, science has real application to all people's lives. Scientific literacy helps people to make sense of the explosion of information they encounter every day. Scientific Inquiry courses use scientific methodologies to examine relationships between events in the natural world and make students aware that science occurs in a social, cultural, political, and ethical context.

Use of scientific methods in laboratory or field settings is an integral part of these courses. As students plan investigations, collect, analyze, and interpret data, and develop their ability to propose answers, offer explanations, and make predictions, they come to see both the power and the limitations of science. Students investigate the distinctions between rational thinking and anecdotal argumentation and develop an understanding that answers are never final, but always subject to revision. Scientific Inquiry courses emphasize the skills of **critical thinking, writing, conducting research, quantitative reasoning, working with information technology, and collaborating with others.**

#### Self and Society Directions

6 credits

**A rich and productive life encompasses an understanding of one's self and one's relationship to the world.**

An educated person must grapple with a question that has interested human beings for centuries: the relationship between self and society. To understand one's self, one must understand and acknowledge the impact of society on the development of identity and the formation of beliefs. The needs of the individual sometimes conflict with the needs of society. Cultures differ in the relative value they give to the individual and to the group.

Using issues that impact on students' lives, Self and Society courses explore questions of these sorts. They encourage students to inquire into multiple dimensions of self including the social, physical, emotional, and cognitive, and to investigate the interactions between individuals and the spatial, temporal, political, economic, and technological aspects of the social environment. Self and Society courses emphasize the skills of **reading, writing, speaking and listening, critical thinking, conducting research, and collaborating with others.**

#### Connections

The Connections component is intended to tie general education to the rest of the curriculum, including the majors, by helping students develop attitudes shared by educated people and more advanced academic skills within specific academic contexts. Three of the seven Connections are tied explicitly to the majors in that students take courses required by the major which advance their writing, quantitative, and technological skills in ways appropriate to the major. In many cases, one or more of the other four Connections may be tied to the major as well.

#### Diversity Connection\*

3 credits

Becoming educated involves developing awareness of, sensitivity to, and appreciation for viewpoints other than those to which we have been acculturated. Through such development comes increased respect for those different from oneself.

Students take a three-credit Diversity (DICO) course (either within the major or not) designed to broaden and deepen awareness and appreciation of differences and commonalities of sub-cultural groups in the U.S. society defined by differences in race, ethnicity, ability, social class, religion, politics, gender, or sexual orientation. Diversity courses do this by exposing students to the life stories and the voices of members of different groups and by exploring issues of equity, opportunity, and justice.

#### Global Awareness Connection\*

3 credits

Educated people are aware that human beings are interdependent members of a world community, that there are both similarities and differences in the societies and cultures of the world, and that the manners in which people live their lives need not be exactly alike.

Students take a three-credit Global Awareness (GACO) course (either within the major or not) designed to expose them to the important societal issues facing the world and to encourage them to develop the ability to appreciate and think about issues from different points of view. Global Awareness courses focus on the forces that have shaped peoples, cultures, nations, and regions of the world. They increase students' understanding of each person's position, participation, obligations, and responsibilities within the world community.

#### Integration Connection\*

3 credits

We live in a world where scholarship is increasingly interdisciplinary. The educated person recognizes the challenges and rewards of drawing connections between fields of knowledge and of applying alternative methods of inquiry to solve problems.

Students take a three-credit Integration (INCO) course (either within the major or not) which brings content or methods of inquiry from two or more disciplines or perspectives to bear on a problem or question. The Integration course is a General Education capstone course, taken in the junior or senior year.

As such, it should require substantial, although general, background and a high level of proficiency at most or all of the General Education skills.

### **Wellness Connection\*** **3 credits**

To be fully educated, people need respect for and understanding of how health, physical activity, and wellness contribute to mental acuity and emotional well-being. Awareness of and attention to the physical can enhance the cognitive and emotional aspects of life.

Students take a three-credit Wellness (WECO) course (either within the major or not) designed to increase their understanding of the connection between mind and body. These courses expose students to the theory and practice of life-span wellness and fitness activity, and to the knowledge, attitudes, habits, and skills needed to live well. Their goal is to help students cultivate life skills which will promote mental, physical, and emotional well-being.

### **Quantitative Reasoning in the Disciplines\*\*** **(3 credits within the major)**

Mathematics finds application in all fields of scholarship. All disciplines make use of quantitative reasoning in some way and to some extent.

Students take a three-credit Quantitative Reasoning (QRCO) course specified as required for their major. This course may be taught within the major discipline or not. It might teach quantitative techniques used as primary or secondary tools within the discipline, or might be a course in which students of less quantitative disciplines come to deepen their appreciation of the relevance of quantitative reasoning to us all.

### **Technology in the Disciplines\*\*** **(3 credits within the major)**

In the modern world, technology has application to every academic discipline, and educated people must have an understanding of technology that will allow them to adapt to rapid technological change.

Students take a three-credit Technology in the Disciplines (TECO) course specified as required for the major. This course may be taught within the major discipline or not. The course will help students examine the role of technology within their own discipline and within a larger societal and cultural context. The TECO course will provide students with hands-on experience using current technologies; with a broad understanding of the concepts underlying current technology; with an understanding of the potential ethical issues involved with the use of technology; and with an understanding of forces, based in the needs and values of our culture, that drive technological innovation.

### **Writing in the Disciplines\*\*** **(3 credits within the major)**

In order to communicate effectively, students need to learn the conventions of their own discipline or profession. They need to learn how to write like an educator, a social worker, a biologist, an historian, or a literary critic, for example.

Students take a three-credit Writing (WRCO) course within their major that contains significant writing experiences appropriate to the discipline. These experiences should be based on Writing Across the Curriculum activities, for example, free-writing, outlining, writing multiple drafts, responding to feedback, and creating a finished product. In addition to extending the process of developing writing skills, WRCO courses also emphasize writing to learn in the discipline.

\* These Connections may be double counted with a major, minor, or any other general education requirement.

\*\* These Connections are three-credit experiences taken as part of the major and hence add no credits to those required for the major.

*Note: Students who entered in 2003–2004 or earlier but elect to follow the 2005–2006 or subsequent Catalog for their major requirements, must fulfill the General Education requirements of the 2003–2004 Catalog. Students who entered in 2004–2005 but elect to follow the 2005–2006 or subsequent Catalog for their major requirements, must fulfill the General Education requirements of the 2004–2005 Catalog.*

### **Transfer of General Education Courses**

A course, or courses, must fulfill the transfer criteria established by Plymouth State University. When discrepancies occur, the Director of Curriculum Support shall consult with the department chair for clarification on details of course description or the amount of credit to be honored. In cases where a clear decision is not apparent, or where students make a challenge of a decision, it shall become the responsibility of the Associate Vice President for Undergraduate Studies to make a decision.

Courses that are transferred into Plymouth State University receive General Education designation in one of the following ways:

- The appropriate department declares the course to be equivalent to a PSU course that carries the General Education designation.
- The Director of Curriculum Support assigns the designation as part of the initial evaluation of transfer credit or as part of the review of the Transfer Credit Approval form.
- The Associate Vice President for Undergraduate Studies approves a Student Request for such designation (this option provides a mechanism of appeal of the first two).

## The First Year Experience

In each of the courses students take, professors will be looking for evidence of three skills: critical thinking, quantitative reasoning, and communication. Successful first-year students approach the First Year Seminar, Mathematics Foundations, and English Composition with the special attention and effort they require and deserve. These courses are the foundation of the General Education program, the program which will instill in PSU students the hallmarks of a truly educated person.

Far from being merely introductory academic hurdles, the mastery of these three courses is a predictive barometer of students' ability to make the transition from high school-level thinking—characterized by the elementary skills of merely absorbing and regurgitating facts, to college-level thinking—characterized by the ability to analyze and synthesize opposing viewpoints, an eagerness to weigh skeptically the accuracy and relevance of an argument's logical and quantitative evidence, and an ability to communicate eloquently and convincingly a reasoned response. Only when students embrace and persevere in these skills will they have made the transition from high school to college; only then will they have taken the most important first steps toward becoming educated.

Plymouth State University places special emphasis on success in the first year. PSU is one of only 12 United States state institutions to hold the title of founding member of *Foundations of Excellence in the First College Year™*. To achieve this honor, the University participated in a two-year study in order to develop a model first year experience to which it might aspire. Using this model, PSU continually makes efforts to improve the experience by refining its approach to the first year philosophy, organization, recruitment methods, and faculty involvement. Additionally, Plymouth State University pays special attention to the individual needs of all students, student engagement, diversity, the roles and purposes of education, and the systematic assessment of its progress in all of these areas. In the fall of 2004, the Policy Center on the First Year of College, located in Brevard, NC, formally commended Plymouth State University for exemplary service and for its contributions as a Founding Institution in the establishment of Foundations of Excellence in the First College Year.

## Writing Across the Curriculum

Plymouth State University has an active Writing Across the Curriculum program that supports the Writing (WRCO) courses and other courses in which writing is assigned. The program is overseen by the Writing Across the Curriculum Coordinator in cooperation with an Advisory Board made up of members representing a variety of academic disciplines. The Advisory Board sponsors activities, such as training workshops, and publications, such as the *WAC Journal* and the *Out of WAC Newsletter*, that are designed to encourage faculty to make more and better use of writing assignments in teaching. As students write to learn, they learn to write.

## Academic Minors

An academic minor consists of at least 15 credit hours of courses. Students may not major and minor in the same discipline. For a second, or subsequent, minor, at least nine credits must be different from the major or the first minor. The courses selected to fulfill the minor must be approved by the department or faculty group that offers the minor program.

Students with a minor must complete six credits of upper-level courses outside the major discipline. These six credits could be taken as part of the minor.

To earn a minor students must achieve at least a 2.00 grade point average in their minor. One exception is the Pre-Law minor, which requires a 3.00 grade point average. Declaration of an Academic Minor forms are available from the Registrar.

Academic Minor	Offered By
Adventure Education	Department of Health and Human Performance
Anthropology/Sociology	Department of Social Science
Applied Linguistics	Department of Languages and Linguistics
Art	Department of Art
Art History	Department of Art
Biology	Department of Biological Sciences
Business Administration	Department of Business
Ceramics	Department of Art
Chemistry	Department of Atmospheric Science and Chemistry
Child Development	Department of Psychology
Child Welfare and Family Studies	Department of Social Work
Coaching	Department of Health and Human Performance
Computing	Department of Computer Science and Technology
Dance	Department of Music, Theatre, and Dance
Digital Media and Game Design	Department of Communication and Media Studies
Drawing	Department of Art
Earth Science	Department of Environmental Science and Policy
Economics	Department of Business
Exercise Biology	Exercise Biology Council (Interdisciplinary Studies)
Expository Writing	Department of English
Film Studies	Department of English
French	Department of Languages and Linguistics

Geographic Information Systems	Department of Social Science
Geography	Department of Social Science
German	Department of Languages and Linguistics
Gerontology	Department of Social Work
Global Tourism	Department of Social Science
Graphic Design	Department of Art
Health	Department of Health and Human Performance
Health and Mental Health Studies	Department of Social Work
History	Department of Social Science
Human Resource Management	Department of Business
Imaginative Writing	Department of English
Information Technology	Department of Computer Science and Technology
Latin American Studies	Latin American Studies Council (Interdisciplinary Studies)
Literature	Department of English
Mathematics–General	Department of Mathematics
Mathematics–Teacher Education	Department of Mathematics
Mathematics–Technical	Department of Mathematics
Media Studies	Department of Communication and Media Studies
Medieval Studies	Medieval Studies Council (Interdisciplinary Studies)
Meteorology	Department of Atmospheric Science and Chemistry
Music	Department of Music, Theatre, and Dance
Neuroscience	Neuroscience Council (Interdisciplinary Studies)
Northern New England Heritage Studies	Institute for New Hampshire Studies (Interdisciplinary Studies)
Pacific Rim	Department of Social Science
Painting	Department of Art
Peace and Justice Studies	Peace and Justice Studies Council (Interdisciplinary Studies)
Philosophy	Department of Philosophy

Physics	Department of Atmospheric Science and Chemistry
Political Science	Department of Social Science
Pre-Law	Pre-Law Council (Interdisciplinary Studies)
Printmaking	Department of Art
Professional Communication	Department of Communication and Media Studies
Psychology	Department of Psychology
Religious Studies	Department of Philosophy
Sculpture	Department of Art
Spanish	Department of Languages and Linguistics
Sport Physiology	Department of Health and Human Performance
Statistics	Department of Mathematics
Teaching English to Speakers of Other Languages (TESOL)	Department of Languages and Linguistics
Theatre	Department of Music, Theatre, and Dance
Web Technology	Department of Computer Science and Technology
Women's Studies	Women's Studies Council (Interdisciplinary Studies)

## Department of Art

**Department of Art**, Draper and Maynard Building

*Department Chair:* Cynthia W. Vascak

*Professors:* John T. Downs, William Haust, Richard W. Hunnewell,

Naomi R. Kline, David W. Martin, Annette W. Mitchell

*Associate Professors:* Thomas W. Driscoll Jr., Jong-Yoon Kim, Philip C.

Lonergan

Assistant Professor: Nicholas Sevigney

### ART, Bachelor of Arts

**120 credits**

The Bachelor of Arts program is designed to provide students with the opportunity for a breadth of experience in the Visual Arts as well as a foundation for further studies through a common 21-credit core of studio art and art history courses. This is followed by a choice of one of six options in the areas of Ceramics, Drawing, Graphic Design, Painting, Printmaking, and Sculpture. BA students should begin their option during year two.

A portfolio is required for admission and transfer to the Department of Art. Portfolio guidelines are available on the Department of Art Web site or by contacting the Department Chair.

Course sequence is suggested and prerequisites must be met before courses are selected. The BA language proficiency should be completed in the first two years.

### CERAMICS OPTION

#### Degree Requirements

#### Credits

Courses required for the Option are shown in boldface.

AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
<b>AR 3010</b>	<b>Painting: Theory and Process</b>	3
<b>AR 3220</b>	<b>Ceramic Exploration</b>	4
<b>AR 3230</b>	<b>Ceramic Design: Potters Wheel</b>	4
<b>AR 3300</b>	<b>Process and Printmaking</b>	3
<b>AR 4230</b>	<b>The Art of Ceramics: Studio Artist/Ceramic Scientist</b>	4
AR 3000/4000 level Ceramics elective [not ARDI]		4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AH 4100	Contemporary Art Seminar (INCO)	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		4

AR 3060 Foundations of Sculpture: Representing the Body (QRCO)

AR 3160 Foundations of Sculpture: Objects and Ideas (QRCO)

Technology in the Discipline Connection—complete one of the following:

CM 2770 Introduction to Media and Cultural Studies (TECO)

CS 1100 Introduction to Computers (TECO)

CS 1170 Computing Technology in Criminal Justice (TECO)

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6

DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		17–15
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30

Year Two		Credits
<b>AR 3010</b>	<b>Painting: Theory and Process</b>	3
<b>AR 3220</b>	<b>Ceramic Exploration</b>	4
<b>AH 2700</b>	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
<b>TECO</b>	<b>Technology in the Discipline Connection</b>	3
	Foreign Language (GACO)	8
		33

Year Three		Credits
<b>AR 3230</b>	<b>Ceramic Design: Potters Wheel</b>	4
<b>AR 3300</b>	<b>Process and Printmaking</b>	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
<b>QRCO</b>	<b>Quantitative Reasoning in the Discipline Connection</b>	4
	Elective	6–4
		29

Year Four		Credits
<b>AR 4230</b>	<b>The Art of Ceramics: Studio Artist/Ceramic Scientist</b>	4
AR 3000/4000 level Ceramics elective [not ARDI]		4
<b>AH 4100</b>	<b>Contemporary Art Seminar (INCO)</b>	3
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Electives		11
		28
<b>Total</b>		<b>120</b>



<b>DRAWING OPTION</b>		
<b>Degree Requirements</b>		<b>Credits</b>
Courses required for the Option are shown in boldface.		
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3
AR 3300	Process and Printmaking	3
AR 4800	Advanced Studio Seminar (INCO)	3
AR Ceramics or Sculpture Elective—complete one 3000 level course in either Ceramics or Sculpture [not ARDI]		4
AR Drawing Option Electives—complete four 3000/4000 level Drawing courses [not ARDI]		12
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		18–16
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30
<b>Year Two</b>		<b>Credits</b>
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3300	Process and Printmaking	3
AH 2700	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3

SSDI	Self and Society Directions	6
	Foreign Language (GACO)	8
		32
<b>Year Three</b>		<b>Credits</b>
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3
AR 3000 level Ceramics or Sculpture elective [not ARDI]		4
AR 3000/4000 level Drawing Option electives [not ARDI]		6
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
Elective		4–2
		29

<b>Year Four</b>		<b>Credits</b>
AR 4800	Advanced Studio Seminar (INCO)	3
AR 3000/4000 level Drawing Option electives [not ARDI]		6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Electives		14
		29
<b>Total</b>		<b>120</b>

#### GRAPHIC DESIGN OPTION

<b>Degree Requirements</b>		<b>Credits</b>
Courses required for the Option are shown in boldface.		
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 2600	<b>Photography I</b>	3
AR 3000/4000 level Art elective [not ARDI]		3
AG 2330	<b>An Introduction to Graphic Design Software (TECO)</b>	3
AG 2350	Graphic Design I	3
AG 3050	Digital Multimedia Design	3
AG 3300	Graphic Design II	3
AG 3360	Graphic Design III	3
AG 3480	Production for Graphic Design	3
AG 3500	History of Graphic Design (WRCO)	3
AG 4370	Graphic Design IV	3
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
Integration Connection—complete one of the following:		3
AH 3620	Mesoamerican Art: Maya to Frida Kahlo (INCO)	
AH 4100	Contemporary Art Seminar (INCO)	
BU 3720	Career Development (INCO)	
IS 3470	Women in Contemporary American Culture (INCO)	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
AR 3060	<b>Foundations of Sculpture: Representing the Body (QRCO)</b>	
AR 3160	<b>Foundations of Sculpture: Objects and Ideas (QRCO)</b>	
MA 1500	Mathematics and the Humanities (QRCO)	
MA 1900	Statistical Literacy in Today's Society (QRCO)	
MA 2140	Elementary Functions (QRCO)	
MA 2200	Finite Mathematics (QRCO)	
MA 2300	Statistics I (QRCO)	
MA 2490	Applied Calculus I (QRCO)	
MA 2550	Calculus I (QRCO)	
PY 2310	Elements of Logic (QRCO)	



*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		<u>16–14</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		<b>30</b>

<b>Year Two</b>		<b>Credits</b>
AG 2330	<b>An Introduction to Graphic Design Software (TECO)</b>	3
AG 2350	<b>Graphic Design I</b>	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	<u>8</u>
		<b>32</b>

<b>Year Three</b>		<b>Credits</b>
AR 2600	<b>Photography I</b>	3
AG 3050	<b>Digital Multimedia Design</b>	3
AG 3300	<b>Graphic Design II</b>	3
AG 3360	<b>Graphic Design III</b>	3
SIDI	Scientific Inquiry Directions	6–8
DICO	Diversity Connection	3
QRCO	<b>Quantitative Reasoning in the Discipline Connection</b>	3
	Elective	<u>5–3</u>
		<b>29</b>

<b>Year Four</b>		<b>Credits</b>
AR 3000/4000 level Art elective [not ARDI]		3
AG 3480	<b>Production for Graphic Design</b>	3
AG 3500	<b>History of Graphic Design (WRCO)</b>	3
AG 4370	<b>Graphic Design IV</b>	3
INCO	<b>Integration Connection</b>	3
WECO	Wellness Connection	3
	Electives	<u>11</u>
		<b>29</b>
<b>Total</b>		<b>120</b>

**PAINTING OPTION**

**Degree Requirements**

Courses required for the Option are shown in boldface.

AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3

AR 3300	<b>Process and Printmaking</b>	3
AR 4800	<b>Advanced Studio Seminar (INCO)</b>	3

AR Ceramics or Sculpture Elective—complete one 3000 level course in either Ceramics or Sculpture [not ARDI] **4**

AR Painting Option Electives—complete four 3000/4000 level Painting courses [not ARDI] **13**

AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		<u>17–15</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		<b>30</b>

Year Two		Credits
AR 3010	Painting: Theory and Process	3
AR 3130	Drawing: Figure in Color	3
AR 3300	Process and Printmaking	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	<u>8</u>
		32

Year Three		Credits
AR 3250	Professional 2D Presentation Practices (QRCO) (TECO)	3
AR 3000 level Ceramics or Sculpture elective [not ARDI]		4
AR 3000/4000 level Painting Option electives [not ARDI]		6
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
	Elective	<u>4–2</u>
		29

Year Four		Credits
AR 4800	Advanced Studio Seminar (INCO)	3
AR 3000/4000 level Painting Option electives [not ARDI]		7
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	<u>13</u>
		29
Total		120

#### PRINTMAKING OPTION

##### Degree Requirements

Courses required for the Option are shown in boldface.

		Credits
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3
AR 3300	<b>Process and Printmaking</b>	3
AR 4800	<b>Advanced Studio Seminar (INCO)</b>	3
AR Ceramics or Sculpture Elective—complete one 3000 level course in either Ceramics or Sculpture [not ARDI]		4
AR Printmaking Option Electives—complete four 3000/4000 level Printmaking courses [not ARDI]		<u>13</u>
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3

##### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		<u>17–15</u>
Total		120

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30

Year Two		Credits
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3300	<b>Process and Printmaking</b>	3
AH 2700	<b>Frameworks of Art: 1900–Present (WRCO)</b>	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	<u>8</u>
		32

Year Three		Credits
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3
AR 3000 level Ceramics or Sculpture elective [not ARDI]		4
AR 3000/4000 level Printmaking Option electives [not ARDI]		6
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
	Electives	<u>4–2</u>
		29

Year Four		Credits
AR 4800	<b>Advanced Studio Seminar (INCO)</b>	3
AR 3000/4000 level Printmaking Option electives [not ARDI]		7
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	<u>13</u>
		29
Total		120

#### SCULPTURE OPTION

##### Degree Requirements

Courses required for the Option are shown in boldface.

		Credits
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3060	<b>Foundations of Sculpture: Representing the Body (QRCO)</b>	4
AR 3160	<b>Foundations of Sculpture: Objects and Ideas (QRCO)</b>	4
AR 3220	<b>Ceramic Exploration</b>	4
AR 3300	<b>Process and Printmaking</b>	3

AR 3660	Advanced Sculpture	4
AR 3000/4000 level Sculpture elective [not ARDI]		4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AH 4100	Contemporary Art Seminar (INCO)	3
Technology in the Discipline Connection—complete one of the following:		3
CM 2770	Introduction to Media and Cultural Studies (TECO)	
CS 1100	Introduction to Computers (TECO)	
CS 1170	Computing Technology in Criminal Justice (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		17–15
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30
Year Two		Credits
AR 3010	Painting: Theory and Process	3
AR 3060	Foundations of Sculpture: Representing the Body (QRCO)	4
AR 3160	Foundations of Sculpture: Objects and Ideas (QRCO)	4
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
TECO	Technology in the Discipline Connection	3
	Foreign Language (GACO)	8
		31

Year Three		Credits
AR 3300	Process and Printmaking	3
AR 3660	Advanced Sculpture	4
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	5–3
		30

Year Four		Credits
AR 3220	Ceramic Exploration	4
AR 3000/4000 level Sculpture elective [not ARDI]		4
AH 4100	Contemporary Art Seminar (INCO)	3
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	12
		29
<b>Total</b>		<b>120</b>

#### ART, Bachelor of Fine Arts

**122 credits**

The Bachelor of Fine Arts program is designed to provide students with the opportunity for a concentrated and focused education in Graphic Design or the Visual Arts (including Ceramics, Drawing, Painting, Printmaking, and Sculpture). The BFA degree provides students with a broad understanding of the visual arts and art history through a common 21-credit core. In addition, students complete an additional option in Graphic Design or 2D Studio Art or 3D Studio Art. *Portfolio reviews are required for acceptance and continuation in the BFA program.* Prerequisites must be met before courses are selected.

A portfolio is required for admission and transfer to the Department of Art. Portfolio guidelines are available on the Department of Art Web site or by contacting the Department Chair.

#### GRAPHIC DESIGN OPTION

##### Degree Requirements

**Credits**

Courses required for the Option are shown in boldface. Students should begin their Option during year two.

AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 2600	Photography I	3
AR 3000/4000 level Art elective [not ARDI]		3–4
AG 2330	An Introduction to Graphic Design Software (TECO)	3
AG 2350	Graphic Design I	3
AG 3050	Digital Multimedia Design	3
AG 3300	Graphic Design II	3
AG 3360	Graphic Design III	3
AG 3480	Production for Graphic Design	3
AG 3500	History of Graphic Design (WRCO)	3
AG 3600	Advanced Photoshop and Illustrator Techniques	3
AG 4350	Advanced Flash Animation and Effects	3
AG 4370	Graphic Design IV	3
AG 4380	Graphic Design V	3
AG 4390	Graphic Design VI	3
AG 4900	Internship	3
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
CM 2770	Introduction to Media and Cultural Studies (TECO)	3

Quantitative Reasoning in the Discipline Connection— complete one of the following:			
AR 3060	Foundations of Sculpture: Representing the Body (QRCO)		3
AR 3160	Foundations of Sculpture: Objects and Ideas (QRCO)		
MA 1500	Mathematics and the Humanities (QRCO)		
MA 1900	Statistical Literacy in Today's Society (QRCO)		
MA 2140	Elementary Functions (QRCO)		
MA 2200	Finite Mathematics (QRCO)		
MA 2300	Statistics I (QRCO)		
MA 2490	Applied Calculus I (QRCO)		
MA 2550	Calculus I (QRCO)		
PY 2310	Elements of Logic (QRCO)		
<i>General Education:</i>			
EN 1200	Composition	3	
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3	
MA	Mathematics Foundations	3	
PPDI	Past and Present Directions	6	
SIDI	Scientific Inquiry Directions	6–8	
SSDI	Self and Society Directions	6	
DICO	Diversity Connection	3	
GACO	Global Awareness Connection	3	
INCO	Integration Connection	3	
WECO	Wellness Connection	3	
<i>Electives</i>		<u>11–8</u>	
<b>Total</b>			<b>122</b>

Enrollment in AG 4380 and AG 4390 is by portfolio review. AG 4900 requires a minimum 2.30 cumulative and a minimum 2.50 grade point average in the major.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30
Year Two		Credits
AR 2600	Photography I	3
AG 2330	An Introduction to Graphic Design Software (TECO)	3
AG 2350	Graphic Design I	3
AG 3300	Graphic Design II	3
CM 2770	Introduction to Media and Cultural Studies (TECO)	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
		30

Year Three		Credits
AG 3050	Digital Multimedia Design	3
AG 3360	Graphic Design III	3
AG 3480	Production for Graphic Design	3
AG 3500	History of Graphic Design (WRCO)	3
AG 3600	Advanced Photoshop and Illustrator Techniques	3
AG 4370	Graphic Design IV	3
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
Elective		5–3
		32

Year Four		Credits
AR 3000/4000 level Art elective [not ARDI]		3–4
AG 4350	Advanced Flash Animation and Effects	3
AG 4380	Graphic Design V	3
AG 4390	Graphic Design VI	3
AG 4900	Internship	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		6–5
		30
<b>Total</b>		<b>122</b>

### 2D STUDIO ART OPTION

The 2D Studio Art Option includes a core of introductory Studio Area courses, introductory Art History courses, a Studio Option Area of focus, and a Senior Thesis in the Area of Focus. Studio Option Areas available are Drawing, Painting, and Printmaking. Students should begin coursework in their Studio Option Area during year two in order to complete requirements prior to Senior Thesis.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	<b>Painting: Theory and Process</b>	3
AR 3130	<b>Drawing: Figure in Color</b>	3
AR 3250	<b>Professional 2D Presentation Practices (QRCO) (TECO)</b>	3
AR 3300	<b>Process and Printmaking</b>	3
AR 4610	<b>2D BFA Thesis I</b>	6
AR 4620	<b>2D BFA Thesis II</b>	6
AR 4800	<b>Advanced Studio Seminar (INCO)</b>	3
AR Studio electives [not ARDI]		6–8
AR Ceramics or Sculpture Elective—complete one 3000 level course in either Ceramics or Sculpture [not ARDI]		
2D Studio Option Area—complete two 3000/4000 level courses from ONE of the following areas: Drawing, Painting, Printmaking [not ARDI]		
		6–7
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AH 3000/4000 level Art History elective [not AHDI]		3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3

GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>16–11</u>
<b>Total</b>		<b>122</b>

Enrollment in Thesis is by portfolio review.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		<b>30</b>

Year Two		Credits
AR 3010	Painting: Theory and Process	3
AR 3130	Drawing: Figure in Color	3
AR 3300	Process and Printmaking	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
		<b>30</b>

Year Three		Credits
AR 3250	Professional 2D Presentation Practices (QRCO) (TECO)	3
AR 3000 level Ceramics or Sculpture elective [not ARDI]		4
AR 3000/4000 level 2D Studio Option Area electives [not ARDI]		6–7
AR Studio electives [not ARDI]		6–8
SIDI	Scientific Inquiry Directions	6–8
	Elective	<u>7–2</u>
		<b>32</b>

Year Four		Credits
AR 4610	2D BFA Senior Thesis I	6
AR 4620	2D BFA Senior Thesis II	6
AR 4800	Advanced Studio Seminar (INCO)	3
AH 3000/4000 level Art History elective [not AHDI]		3
WECO	Wellness Connection	3
	Electives	9
		<b>30</b>
<b>Total</b>		<b>122</b>

#### 3D STUDIO ART OPTION

The 3D Studio Art Option includes a core of introductory Studio Area courses, introductory Art History courses, a Studio Option Area of focus, and a Senior Thesis in the Area of Focus. Studio Option Areas available are Ceramics and Sculpture. Students should begin coursework in their Studio Option Area during year two in order to complete requirements prior to Senior Thesis.

#### Degree Requirements

Courses required for the Option are shown in boldface.

AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	Painting: Theory and Process	3
AR 3220	Ceramic Exploration	4
AR 3300	Process and Printmaking	3
AR 4110	Senior Thesis I	6
AR 4120	Senior Thesis II	6

3D Studio Option Area—complete two 3000/4000 level courses from ONE of the following areas: Ceramics or Sculpture [not ARDI]

AR 3060	Foundations of Sculpture: Representing the Body (QRCO)	4
AR 3160	Foundations of Sculpture: Objects and Ideas (QRCO)	
AR 3230	Ceramic Design: Potters Wheel	
AR 3660	Advanced Sculpture	
AR 4230	The Art of Ceramics: Studio Artist/Ceramic Scientist	

Quantitative Reasoning in the Discipline Connection—

complete one of the following; must be different from Studio

Option Area: **4**

AR 3060 Foundations of Sculpture: Representing the Body (QRCO)

AR 3160 Foundations of Sculpture: Objects and Ideas (QRCO)

AH 1110 Survey of Art I **3**

AH 1120 Survey of Art II **3**

AH 2700 Frameworks of Art: 1900–Present (WRCO) **3**

AH 4100 Contemporary Art Seminar (INCO) **3**

AH Non-western Art History elective [not AHDI] **3**

Technology in the Discipline Connection—

complete one of the following: **3**

AE 3500 Technology for Art Education (TECO)

CM 2770 Introduction to Media and Cultural Studies (TECO)

CS 1100 Introduction to Computers (TECO)

CS 1170 Computing Technology in Criminal Justice (TECO)

General Education:

EN 1200 Composition **3**

IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry **3**

MA Mathematics Foundations **3**

PPDI Past and Present Directions **6**

SIDI Scientific Inquiry Directions **6–8**

SSDI Self and Society Directions **6**

DICO Diversity Connection **3**

GACO Global Awareness Connection **3**

WECO Wellness Connection **3**

*Electives* 19–17

**Total** **122**

Students choosing Sculpture as their Studio Option Area must take both AR 3160 and AR 3060. Enrollment in Senior Thesis is by portfolio review.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4



AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
		30

Year Two		Credits
AR 3220	Ceramic Exploration	4
AR 3300	Process and Printmaking	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	4
TECO	Technology in the Discipline Connection	3
		29

Year Three		Credits
AR 3010	Painting: Theory and Process	3
AR 3000/4000 level 3D Studio Option Area electives [not ARDI]		8
SIDI	Scientific Inquiry Directions	6–8
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
	Electives	10–8
		33

Year Four		Credits
AR 4110	Senior Thesis I	6
AR 4120	Senior These II	6
AH 4100	Contemporary Art Seminar (INCO)	3
AH Non-western Art History elective [not AHDI]		3
WECO	Wellness Connection	3
	Electives	9
		30
<b>Total</b>		<b>122</b>

#### Bachelor Fine Arts/Master of Arts in Teaching

The dual degree BFA (2D Studio Art or 3D Studio Art Option)/MAT is a five year plan of study, combining the undergraduate Bachelor of Fine Arts degree with the Master of Arts in Teaching for K–12 certification in Art Education. Undergraduate BFA students have the opportunity to plan ahead and select up to 12 credits of required Art Education courses and six credits of graduate education courses (if they have at least a 3.00 cumulative grade point average) during their undergraduate BFA studies. The remaining MAT courses and student teaching internship are completed within the fifth year of study following acceptance into the College of Graduate Studies. Thus, students can achieve these two degrees within a five year plan of study. Interested students should see the Department Chair or the Coordinator of Art Education.

#### ART EDUCATION (K–12), Bachelor of Science 122 credits

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this teacher certification program are eligible for K–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section. The Art Education program endorses the Plymouth State University conceptual framework for teacher education: **CHECK**. The experiences required for this program are **Commitment** and **Holism** and are based on **Experience**, **Collaboration** and **Knowledge** of the disciplines of the Fine Arts.

Art Education majors are required to complete a 50-hour observation component prior to student teaching. As part of this requirement, students will have the opportunity to work with an experienced public school art educator through the New Hampshire Art Education Mentor Network. Students may also participate in the After School Arts Program for area children or participate in Arts Smarts, an interdisciplinary outreach program involving the Art Department Karl Drerup Gallery and Exhibitions Program.

All Art Education majors take a common 85–87 credit core, which includes 8–10 credits of advanced level course work in one of seven art disciplines: Art History, Ceramics, Drawing, Graphic Design, Painting, Printmaking or Sculpture. This opportunity provides a greater depth of experience in a single discipline. A portfolio is required for admission and transfer to the Department of Art. Portfolio guidelines are available on the Department of Art Web site or by contacting the Department Chair.

Art Education majors are expected to apply for admission to Teacher Certification Candidacy at the beginning of their second year in the program. This application is initiated through the Office of Teacher Certification. Refer to the section of the Catalog on Teacher Education and Clinical Experiences for additional information. A minimum cumulative grade point average of 2.50 is required for admission into this teacher education candidacy program; students are required to have a 2.70 GPA to enter student teaching.

Degree Requirements		Credits
AE 1000	Introduction to Art Education	3
AE 2000	Foundations of Art Education	3
AE 3050	Methods and Materials for Art Education	3
AE 3060	Instructional Planning and Pedagogy for Art Education (DICO)	3
AE 3100	Curriculum and Assessment for Art Education	3
AE 3500	Technology for Art Education (TECO)	3
Student Teaching—complete AE 4950 or (AE 4960 and AE 4970):		12
AE 4950	Art Education Student Teaching: K–12	
AE 4960	Art Education Student Teaching: Secondary Component	
AE 4970	Art Education Student Teaching: Elementary Component	
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3010	Painting: Theory and Process	3
AR 3220	Ceramic Exploration	4
AR 3300	Process and Printmaking	3
Advanced Concentration—complete 8–10 credits in 3000/4000 level courses from ONE of the following areas: Art History, Ceramics, Drawing, Graphic Design, Painting, Printmaking, Sculpture [not AHDI, not ARDI]		8–10
Quantitative Reasoning in the Discipline Connection—complete one of the following:		4
AR 3060	Foundations of Sculpture: Representing the Body (QRCO)	
AR 3160	Foundations of Sculpture: Objects and Ideas (QRCO)	
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3



### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
<i>Electives</i>		7–3
<b>Total</b>		<b>122</b>

Student Teaching requires a minimum cumulative grade point average of 2.70.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AE 1000	Introduction to Art Education	3
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
PPDI	Past and Present Direction	3
		32

Year Two		Credits
AE 2000	Foundations of Art Education	3
AE 3050	Methods and Materials for Art Education	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AR 2520	Drawing: Figure in Value	4
AR 3010	Painting: Theory and Process	3
AR 3220	Ceramic Exploration	4
AR 3300	Process and Printmaking	3
PPDI	Past and Present Direction	3
QRCO	Quantitative Reasoning in the Discipline Connection	4
		30

Year Three		Credits
AE 3060	Instructional Planning and Pedagogy for Art Education (DICO)	3
AE 3100	Curriculum and Assessment for Art Education	3
AE 3500	Technology for Art Education (TECO)	3
AR Advanced Concentration [not AHDI, not ARDI]		8–10
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3
GACO	Global Awareness Connection	3
	Elective	5–3
		31

Year Four		Credits
AE	Student Teaching	12
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	2–0
		29
<b>Total</b>		<b>122</b>

### ART HISTORY, Bachelor of Arts

120 credits

Art History is a discipline that explores the fascination and allure of visual objects and imagery interpreted through contextual knowledge and understanding. Art functions on numerous levels within society and is integrally related to aesthetic, political, religious, and cultural systems, the study of which provides intellectual pleasure and valuable preparation for further educational and vocational pursuits.

Art History furnishes a solid foundation in the history, theory, and criticism of both Western and non-Western art as well as an introduction to media and cultural studies that provide a basis for understanding contemporary culture. Based on a strong liberal arts foundation, the degree emphasizes skills in critical thinking, advanced writing, and research, and encourages majors to explore interdisciplinary connections with other fields across the curriculum. Distinguished by flexibility of student choice in selecting courses best attuned to meeting academic needs and professional goals, the program also provides opportunities for gallery and museum related experiences and international study. Majors develop a contract in consultation with the Art History advisor to chart fulfillment of degree requirements.

In our image rich and media driven culture, majors in Art History can look forward to a wide range of professional applications of this degree, including (but not limited to) the following: museum and gallery professional, art center administrator, historic preservation, digital media resources, as well as preparation for graduate training in a broad range of fields including art history, media/cultural studies, law and cultural property, business school, library science, and numerous other areas where a fine liberal arts degree is relevant.

### Degree Requirements

Credits

AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AH Non-western Art History 3000/4000 level elective*		3
[not AHDI]		
AH Western (pre-1900) Art History 3000/4000 level elective**		3
[not AHDI]		
Group A Art History electives—complete four courses, in addition to the Non-western Art History and the Western (pre-1900)		
Art History electives required above:		12
AH 3160	Museum Studies I (DICO)	
AH 3170	Museum Studies II	
AH 3450	Architects and Society Since 1900	
AH 3500	The World of the Crusades (GACO) (INCO)**	
AH 3530	Arts of the Far East (GACO) (INCO)*	
AH 3540	Art and Ideas in the 19th Century (GACO) (INCO)**	
AH 3600	Arts of the United States (DICO)	
AH 3620	Mesoamerican Arts: Maya to Frida Kahlo (GACO) (INCO)*	
AH 3710	Ancient Art**	
AH 3720	Medieval Art**	
AH 3730	Renaissance Art in Southern Europe (GACO) (INCO)**	
AH 3740	Baroque Art**	
AH 3750	Women, Art, and Society (DICO)	
AH 4100	Contemporary Art Seminar (INCO)	
AH 4500	Special Topics in Art History	
AH 4880	Art History Internship	

Group B Supporting courses—complete three 3000/4000 level courses in any discipline that complements the student's academic and professional goals, given the written approval of the Art History advisor:

AR Studio Arts electives [not ARDI]	6–7
CM 2770 Introduction to Media and Cultural Studies (TECO)	3

Quantitative Reasoning in the Discipline Connection—  
complete one of the following: 3

AR 3060	Foundations of Sculpture: Representing the Body (QRCO)	
AR 3160	Foundations of Sculpture: Objects and Ideas (QRCO)	
LL 2000	Introduction to Language and Linguistics (QRCO)	
MA 1500	Mathematics and the Humanities (QRCO)	
MA 1900	Statistical Literacy in Today's Society (QRCO)	
MA 2140	Elementary Functions (QRCO)	
MA 2200	Finite Mathematics (QRCO)	
MA 2300	Statistics I (QRCO)	
MA 2490	Applied Calculus I (QRCO)	
MA 2550	Calculus I (QRCO)	
PY 2310	Elements of Logic (QRCO)	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		22–19
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

The Studio Arts electives are generally 1000/2000 level courses. The BA language proficiency should be completed in the first two years.

\* Satisfies the Non-western Art History 3000/4000 level elective *or* the Art History elective (not both).

\*\* Satisfies the Western (pre-1900) Art History 3000/4000 level elective *or* the Art History elective (not both).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
CTDI	Creative Thought Directions	6
	Foreign Language (GACO)	8
		29
Year Two		Credits
AH 2700	Frameworks of Art: 1900–Present (WRCO)	3
AR Studio Arts electives [not ARDI]		6–7
CM 2770	Introduction to Media and Cultural Studies (TECO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
	Electives	7–4
		31

Year Three		Credits
AH	Group A Art History electives	12
	Group B Supporting courses	9
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
		30

Year Four		Credits
AH Non-western Art History 3000/4000 level elective*		
[not AHDI]		3
AH Western (pre-1900) Art History 3000/4000 level elective**		
[not AHDI]		3
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	15
		30
<b>Total</b>		<b>120</b>

\* Satisfies the Non-western Art History 3000/4000 level elective *or* the Art History elective (not both).

\*\* Satisfies the Western (pre-1900) Art History 3000/4000 level elective *or* the Art History elective (not both).

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

**ART MINOR 17–20 credits**

Students should work closely with an art faculty advisor to develop a meaningful sequence of courses. For some upper-division courses, it may be necessary to take additional courses to meet prerequisite requirements. Contact the Department Chair for further information.

Complete one of the following: 3

AH 1110	Survey of Art I
AH 1120	Survey of Art II

Complete two of the following: 7–8

AR 1040	Fundamentals of Art: Color and Design
AR 1060	Fundamentals of Art: Form in 3D
AR 1120	Drawing: Objects, Interiors, Landscapes

Complete seven to nine credits in the following areas (at least six credits must be taken at the 3000/4000 level): 7–9

AG	Graphic Design
AH	Art History
AR	Studio Art

**ART HISTORY MINOR 18 credits**

		Credits
AH 1110	Survey of Art I	3
AH 1120	Survey of Art II	3
AH 2700	Frameworks of Art: 1900–Present	3
AH 3000/4000 level Art History courses		9

**CERAMICS MINOR 19–20 credits**

		Credits
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 3220	Ceramic Exploration	4
AR 3230	Ceramic Design: Potters Wheel	4
Complete one of the following courses:		3–4

AR 4230	The Art of Ceramics: Studio Artist/Ceramic Scientist
AH	Art History

<b>DRAWING MINOR</b>		<b>20 credits</b>
		<b>Credits</b>
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 2520	Drawing: Figure in Value	4
AR 3130	Drawing: Figure in Color	3
Complete nine credits in the following areas (at least six credits must be taken at the 3000/4000 level):		9
AR	Drawing (6–9 credits)	
AH	Art History (3–0 credits)	
<b>GRAPHIC DESIGN MINOR</b>		<b>22 credits</b>
		<b>Credits</b>
AG 2330	An Introduction to Graphic Design Software	3
AG 2350	Graphic Design I	3
AG 3300	Graphic Design II	3
AG 3360	Graphic Design III	3
AG 3500	History of Graphic Design	3
AR 1040	Fundamentals of Art: Color and Design	3
AR 1120	Drawing: Objects, Interiors, Landscapes	4
<b>PAINTING MINOR</b>		<b>19–20 credits</b>
		<b>Credits</b>
AR 1040	Fundamentals of Art: Color and Design	3
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 3010	Painting: Theory and Process	3
Complete 9–10 credits in the following areas (at least six credits must be taken at the 3000/4000 level):		9–10
AR	Painting (6–10 credits)	
AH	Art History (3–0 credits)	
<b>PRINTMAKING MINOR</b>		<b>19–20 credits</b>
		<b>Credits</b>
AR 1040	Fundamentals of Art: Color and Design	3
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 3300	Process and Printmaking	3
Complete 9–10 credits in the following areas (at least six credits must be taken at the 3000/4000 level):		9–10
AR	Printmaking (6–10 credits)	
AH	Art History (3–0 credits)	
<b>SCULPTURE MINOR</b>		<b>19–20 credits</b>
		<b>Credits</b>
AR 1060	Fundamentals of Art: Form in 3D	4
AR 1120	Drawing: Objects, Interiors, Landscapes	4
AR 3060	Foundations of Sculpture: Representing the Body	4
AR 3160	Foundations of Sculpture: Objects and Ideas	4
Complete one of the following:		3–4
AR	Sculpture (4 credits)	
AH	Art History (3 credits)	

## Allowable Department of Art Academic Minors for Art Majors

### Degree

BA Art/Ceramics  
  
BA Art/Drawing  
  
BA Art/Graphic Design  
BA Art/Painting  
  
BA Art/Printmaking  
  
BA Art/Sculpture  
  
BFA/Graphic Design

BFA/2D Studio Art

BFA/3D Studio Art

BS Art Education

BA Art History

Art majors may also complete an academic minor in other departments.

### Allowable Department of Art Academic Minor

Art History  
Graphic Design  
Art History  
Graphic Design  
Art History  
Art History  
Graphic Design  
Art History  
Graphic Design  
Art  
Art History  
Ceramics  
Drawing  
Painting  
Printmaking  
Sculpture  
Art History  
Graphic Design  
Art History  
Graphic Design  
Art History  
Ceramics  
Drawing  
Graphic Design  
Painting  
Printmaking  
Sculpture  
Art  
Ceramics  
Drawing  
Graphic Design  
Painting  
Printmaking  
Sculpture

## Department of Atmospheric Science and Chemistry

Department of Atmospheric Science and Chemistry, Boyd Science Center

Chair: Eric G. Hoffman

Professors: James P. Koerner, Susan Swope

Associate Professor: Dennis E. Machnik

Assistant Professors: Lourdes B. Aviles, Jeremiah S. Duncan,

Samuel T. K. Miller, Anil Waghe

Meteorology Technical Manager: Brendon Hoch

Chemistry Technical Specialists: Betsy Ayotte, Marguerite Crowell

### CHEMISTRY, Bachelor of Science

120 credits

This is a traditional chemistry degree intended for students that desire greater flexibility in their program of study.

### BIOCHEMISTRY OPTION

#### Degree Requirements

Credits

Courses required for the Option are shown in boldface.

CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
CH 3360	Instrumental Analysis	4
CH 3450	Physical Chemistry I	4
CH 3460	Physical Chemistry II (WRCO)	4
CH 3500	Inorganic Chemistry	4
CH 4020	Biochemistry II	3
CH 4190	Introduction to Research	2
CH 4530	Senior Research	4
BI Bio Molecular elective [not BIDI]		4
Calculus—complete one sequence of (MA 2490 and MA 2500) or (MA 2550 and MA 2560):		8
MA 2490	Applied Calculus I (MATH)	
MA 2500	Applied Calculus II (QRCO)	
MA 2550	Calculus I (MATH)	
MA 2560	Calculus II (QRCO)	
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
<b>General Education:</b>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		16
<b>Total</b>		<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. Course sequence is suggested but not required.

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
Calculus—complete one sequence (MATH) (QRCO)		8
CTDI	Creative Thought Directions	6
		31

Year Two		Credits
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
PPDI	Past and Present Directions	6
DICO	Diversity Connection	3
		29

Year Three		Credits
CH 3360	Instrumental Analysis	4
CH 3450	Physical Chemistry I	4
CH 3460	Physical Chemistry II (WRCO)	4
CH 4020	Biochemistry II	3
CH 4190	Introduction to Research	2
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
Electives		4
		30

Year Four		Credits
CH 3500	Inorganic Chemistry	4
CH 4530	Senior Research	4
BI Bio Molecular Elective [not BIDI]		4
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		12
		30
<b>Total</b>		<b>120</b>

### CHEMISTRY EDUCATION (7–12) OPTION

Program approval by the New Hampshire State Department of Education is pending.

#### Degree Requirements

Courses required for the Option are shown in boldface.

		Credits
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
CH 3020	Biochemistry I	4

CH 3310	Organic Chemistry I	3	PH 2440	University Physics Laboratory II	1
CH 3320	Organic Chemistry II	3	PPDI	Past and Present Directions	6
CH 3330	Organic Chemistry Laboratory I	1	GACO	Global Awareness Connection	3
CH 3350	Organic Chemistry Laboratory II	1		Elective	<u>1</u>
CH 3360	Instrumental Analysis	4			30
CH 3450	Physical Chemistry I	4			
CH 3500	Inorganic Chemistry	4	<b>Year Three</b>		<b>Credits</b>
CD 3000	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3	CH 3360	Instrumental Analysis	4
ED 4420	<b>Secondary Student Teaching</b>	12	CH 3450	Physical Chemistry I	4
IS 4360	<b>Cultural Diversity and American Society (DICO) (INCO)</b>	3	CD 3000	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3
Calculus—complete one sequence of (MA 2490 and MA 2500) or (MA 2550 and MA 2560):		8	PS 3190	<b>Development and Understanding (WECO)</b>	3
MA 2490	Applied Calculus I (MATH)		SE 3090	<b>Introduction Special Education: Middle and Secondary</b>	3
MA 2500	Applied Calculus II (QRCO)		SSDI	Self and Society Directions	6
MA 2550	Calculus I (MATH)			Electives	<u>8</u>
MA 2560	Calculus II (QRCO)				31
NS 4330	<b>Science in the Secondary School</b>	3	<b>Year Four</b>		<b>Credits</b>
PH 2410	University Physics I	3	CH 3500	Inorganic Chemistry	4
PH 2420	University Physics II	3	ED 4420	<b>Secondary Student Teaching</b>	12
PH 2430	University Physics Laboratory I	1	IS 4360	<b>Cultural Diversity and American Society (DICO) (INCO)</b>	3
PH 2440	University Physics Laboratory II	1	NS 4330	<b>Science in the Secondary School</b>	3
PS 3190	<b>Development and Understanding (WECO)</b>	3		Electives	<u>6</u>
SE 3090	<b>Introduction Special Education: Middle and Secondary</b>	3			28
<i>General Education:</i>			<b>Total</b>		<b>120</b>
EN 1200	Composition	3			
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3			
CTDI	Creative Thought Directions	6			
PPDI	Past and Present Directions	6			
SSDI	Self and Society Directions	6			
GACO	Global Awareness Connection	3			
<i>Electives</i>		15			
<b>Total</b>		<b>120</b>			

Student Teaching requires a minimum cumulative grade point average of 2.50.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
Calculus—complete one sequence (MATH) (QRCO)		8
CTDI	Creative Thought Directions	6
		31

<b>Year Two</b>		<b>Credits</b>
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1

<b>ENVIRONMENTAL CHEMISTRY OPTION</b>		
<b>Degree Requirements</b>		<b>Credits</b>
Courses required for the Option are shown in boldface.		
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
CH 3360	Instrumental Analysis	4
CH 3420	<b>Environmental Chemistry</b>	4
CH 3450	Physical Chemistry I	4
CH 3460	<b>Physical Chemistry II (WRCO)</b>	4
CH 3500	Inorganic Chemistry	4
CH 4190	<b>Introduction to Research</b>	2
CH 4530	<b>Senior Research</b>	4
3000/4000 level Environmental Elective		3
<b>Group A—complete two courses from the following disciplines:</b>		<b>6</b>
	<b>Biology [not BIDI]</b>	
	<b>Earth Science [not ESDI]</b>	
	<b>Geography [not GEDI]</b>	
Calculus—complete one sequence of (MA 2490 and MA 2500) or (MA 2550 and MA 2560):		8
	MA 2490 Applied Calculus I (MATH)	
	MA 2500 Applied Calculus II (QRCO)	
	MA 2550 Calculus I (MATH)	
	MA 2560 Calculus II (QRCO)	
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>10</u>
<b>Total</b>		<b>120</b>

#### Environmental Suggested Elective:

CH 4110	Air Quality
GE 3300	Introduction to Hydrology

#### Group A Suggested Electives:

BI 3260	Freshwater Ecology
BI 4050	Ecology
GE 2001	Physical Geography
GE 2090	Computer Mapping
MT 2110	Introduction to Meteorology

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

#### Year One

		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
Calculus—complete one sequence (MATH) (QRCO)		8
CTDI	Creative Thought Directions	<u>6</u>
		<b>31</b>

#### Year Two

		Credits
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
PPDI	Past and Present Directions	6
DICO	Diversity Connection	3
		<b>29</b>

#### Year Three

		Credits
CH 3360	Instrumental Analysis	4
CH 3450	Physical Chemistry I	4
CH 3460	Physical Chemistry II (WRCO)	4
CH 4190	Introduction to Research	2
<b>Group A Electives</b>		<b>6</b>
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
		<b>32</b>

#### Year Four

		Credits
CH 3420	Environmental Chemistry	4
CH 3500	Inorganic Chemistry	4
CH 4530	Senior Research	4
3000/4000 level Environmental Elective		3
INCO	Integration Connection	3
	Electives	<u>10</u>
		<b>28</b>
<b>Total</b>		<b>120</b>

#### GENERAL OPTION

This option follows guidelines set by the American Chemical Society set for a BS in Chemistry.

#### Degree Requirements

Courses required for the Option are shown in boldface.

		Credits
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
CH 3360	Instrumental Analysis	4
CH 3450	Physical Chemistry I	4
CH 3460	Physical Chemistry II (WRCO)	4
CH 3500	Inorganic Chemistry	4
CH 4190	Introduction to Research	2
CH 4530	Senior Research	4
CH 3000/4000 level Chemistry elective [not CHDI]		4
Calculus—complete one sequence of (MA 2490 and MA 2500) or (MA 2550 and MA 2560):		8
MA 2490	Applied Calculus I (MATH)	
MA 2500	Applied Calculus II (QRCO)	
MA 2550	Calculus I (MATH)	
MA 2560	Calculus II (QRCO)	
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>10</u>
<b>Total</b>		<b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

#### Year One

		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3



CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
Calculus—complete one sequence (MATH) (QRCO)		8
CTDI	Creative Thought Directions	6
		31

#### Year Two

CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
PPDI	Past and Present Directions	6
DICO	Diversity Connection	3
		29

#### Year Three

CH 3360	Instrumental Analysis	4
CH 3450	Physical Chemistry I	4
CH 3460	Physical Chemistry II (WRCO)	4
CH 4190	Introduction to Research	2
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
	Elective	4
		30

#### Year Four

CH 3500	Inorganic Chemistry	4
CH 4530	Senior Research	4
CH Chemistry 3000/4000 level elective [not CHDI]		4
INCO	Integration Connection	3
	Electives	15
		30
<b>Total</b>		<b>120</b>

#### METEOROLOGY, Bachelor of Science

**120 credits**

Plymouth State University is the only institution in New Hampshire to offer a BS degree in Meteorology. The program offers students not only a solid curriculum in traditional areas of theoretical and applied meteorology but also an opportunity for independent research and for internships in operational meteorology. A program graduate will have received an education of sufficient depth and versatility either to pursue advanced graduate study in theoretical or experimental meteorology or to seek employment in the fields of operational and applied meteorology. As an alternative to the BS program, students may pursue an interdisciplinary major that incorporates atmospheric science with related fields such as earth science, mathematics, computer science, journalism, etc. At a minimum, entering students should have a mastery of high school precalculus. Meteorology majors should consider the following minors: General Mathematics, Technical Mathematics, Computer Science or Business Administration.

#### Degree Requirements

MT 2110	Introduction to Meteorology	3
MT 2230	Introduction to Meteorological Analysis	1
MT 2800	Climatology (GACO)	3
MT 3250	Atmospheric Thermodynamics	4
MT 3300	Synoptic Meteorology I	4

MT 3710	Meteorological Instruments and Observations (WRCO)	4
MT 4300	Synoptic Meteorology II	4
MT 4310	Dynamic Meteorology I	3
MT 4320	Dynamic Meteorology II	3
MT 4410	Atmospheric Physics	3
Oral Communication—complete one of the following:		1
MT 4330	Current Weather Seminar	
MT 4350	Forecasting/Radio Practicum	
MT 4360	Forecasting/Television Practicum	
Capstone Experiences—minimum of five credits		5
Students will design their own capstone experiences with their academic advisors. Capstone experiences should contain a mixture of coursework (4000 level) and experiential learning (internship, research or practicum). See examples below.		
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
Technology in the Discipline Connection—complete one of the following:		3
CS 1100	Introduction to Computers (TECO)	
CS 2010	Computing Fundamentals (TECO)	
CS 2400	Scientific Programming Using FORTRAN	3
EN 3090	Technical Communication (TECO)	3
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
MA 3500	Probability and Statistics for Scientists	3
MA 3510	Differential Equations	3
MA 3540	Multivariable Calculus	4
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		6
<b>Total</b>		<b>120</b>

#### Capstone Experience Examples

Student interested in broadcast meteorology:

- MT 4360 Forecasting/Television Practicum [1 credit]
- MT 4550 Topics (Tropical or Mesoscale) [3 credits]
- MT 4600 Internship [at least 2 credits]

Student interested in graduate school:

- MT 4330 Current Weather Seminar [1 credit]
- MT 4450 Advanced Synoptic Meteorology [3 credits]
- and/or
- MT 4510/MT 4520 Senior Research [at least 2 credits]
- MT 4550 Topics (NWP, Tropical, Mesoscale) [3 credits]

Student interested in forecasting:

- MT 4330 Current Weather Seminar [2 credits]
- MT 4340 Forecasting/Multimedia Practice [2 credits]
- MT 4600 Internship [at least 2 credits]

## Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MT 2110	Introduction to Meteorology	3
MT 2230	Introduction to Meteorological Analysis	1
MT 2800	Climatology (GACO)	3
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
TECO	Technology in the Discipline Connection	3
		32

Year Two		Credits
MT 3250	Atmospheric Thermodynamics	4
MT 3300	Synoptic Meteorology I	4
CS 2400	Scientific Programming Using FORTRAN	3
MA 3540	Multivariable Calculus	4
PH 2410	University Physics I	3
PH 2420	University Physics II	3
PH 2430	University Physics Laboratory I	1
PH 2440	University Physics Laboratory II	1
CTDI	Creative Thought Directions	6
		29

Year Three		Credits
MT 3710	Meteorological Instruments and Observations (WRCO)	4
MT 4300	Synoptic Meteorology II	4
MT 4310	Dynamic Meteorology I	3
MT 4320	Dynamic Meteorology II	3
MA 3500	Probability and Statistics for Scientists	3
MA 3510	Differential Equations	3
PPDI	Past and Present Directions	6
WECO	Wellness Connection	3
		29

Year Four		Credits
MT	Oral Communication	1
MT	Capstone Experiences	5
MT 4410	Atmospheric Physics	3
EN 3090	Technical Communication (TECO)	3
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
	Electives	6
		30
<b>Total</b>		<b>120</b>

**Complementary Courses:** Generally, students are encouraged to take electives from the following disciplines: Biology, Chemistry, Computer Science, Earth Science, Geography, Mathematics, Meteorology, and Physics. Specifically, students considering research and/or graduate school should take as many of the following electives as possible: CH 3340, CH 3360, CH 3450, CH 3460, ESDI 2140, MA 4420, MT 4110, MT 4450, MT 4510, MT 4520, MT 4550, PH 3130. Students considering operational, forecast and/or broadcast meteorology should take as many of the following as possible: CM 2400, CM 2910, MT 4110, MT 4450, MT 4550, MT 4600.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

**CHEMISTRY MINOR** **20 credits**  
Students should take eight credits of lower-level (1000/2000) general chemistry and 12 credits of upper-level (3000/4000) courses consisting of organic/upper-level chemistry courses in order to complete this minor. It is also recommended that students contact the Department Chair.

**METEOROLOGY MINOR** **17 or 18 credits**  
The Meteorology minor contains a mixture of theory, forecasting and numerical analysis. It requires simultaneous enrollment in MT 3300 and MT 4310 during the fall semester of the junior or senior year.

		Credits
MT 2110	Introduction to Meteorology	3
MT 2230	Introduction to Meteorological Analysis	1
MT 2800	Climatology (GACO)	3
MT 3250	Atmospheric Thermodynamics	4
Complete (MT 4310 and MT 4320) or (MT 3300 and MT 4310):		6 or 7
MT 3300	Synoptic Meteorology I	
MT 4310	Dynamic Meteorology I	
MT 4320	Dynamic Meteorology II	

Corequisites and prerequisites: MA 2550, MA 2560, MA 3540, PH 2410, PH 2420, PH 2430 and PH 2440

**PHYSICS MINOR** **18 credits**  
Students should take at least 18 credits of Physics courses starting with University Physics (PH 2410) and including at least seven credits of 3000/4000 level courses. Calculus should also be taken as it is a prerequisite for some of the courses. It is also recommended that students see the Department Chair.

## Department of Biological Sciences

Department of Biological Sciences, Boyd Science Center

Chair: Leonard R. Reitsma

Professors: Christopher C. Chabot, Frederick P. Prince

Assistant Professors: Katie R. Boissonneault, Brigid C. O'Donnell,

Michele L. Pruyn, Kerry L. Yurewicz

Technical Specialist: Amy Ueland

### BIOLOGY, Bachelor of Arts

120 credits

The BA program in Biology is a broad overview of the principles of biology and the functions of biological systems with supportive courses in mathematics, physics, and chemistry. It can be used to fulfill the goals of students just interested in biology or those who plan to go on to professional programs or graduate degrees in the biological sciences. For the latter case, it should be noted that some professional/graduate schools require a full year each of organic chemistry, physics, and calculus; this program is less restrictive. Thus students should work closely with their academic advisor to plan their coursework.

#### Degree Requirements

	Credits
BI 1110 Biological Science I (TECO)	4
BI 1120 Biological Science II	4
BI 3060 Genetics	4
BI 3130 Evolution	4
BI 3240 Conservation (DICO) (GACO) (INCO)	3
BI 4960 Biology Seminar	1
BI 2000 level Biology electives [not BIDI]	0-8
BI 3000/4000 level Biology electives [not BIDI]	16-8
Writing in the Discipline Connection:	4
BI 3000/4000 level Biology elective (WRCO) [not BIDI]	
CH 1050 Laboratory Safety	1
CH 2130 General Chemistry I (QRCO) (TECO)	3
CH 2140 General Chemistry II	3
CH 2230 General Chemistry Laboratory I	1
CH 2240 General Chemistry Laboratory II	1
Physical Science Group—complete four credits:	4
CH 3310 Organic Chemistry I <i>and</i>	
CH 3330 Organic Chemistry Laboratory I	
ES 2100 Physical Geology <i>and</i>	
ES 2110 Physical Geology Laboratory	
PH 2130 Physics I	
PH 2410 University Physics I <i>and</i>	
PH 2430 University Physics Laboratory I	
Mathematics Foundations—complete one of the following:	4
MA 2140 Elementary Functions (MATH)	
MA 2490 Applied Calculus I (MATH)	
MA 2550 Calculus I (MATH)	
<i>General Education:</i>	
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI Creative Thought Directions	6
PPDI Past and Present Directions	6
SSDI Self and Society Directions	6
WECO Wellness Connection	3
Foreign Language (GACO)	8
Electives	28
<b>Total</b>	<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0-8 credits: one year of one language (6-8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

#### Year One

	Credits
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA Mathematics Foundations	4
BI 1110 Biological Science I (TECO)	4
BI 1120 Biological Science II	4
CH 1050 Laboratory Safety	1
CH 2130 General Chemistry I (QRCO) (TECO)	3
CH 2140 General Chemistry II	3
CH 2230 General Chemistry Laboratory I	1
CH 2240 General Chemistry Laboratory II	1
CTDI Creative Thought Direction	3
	<u>30</u>

#### Year Two

	Credits
BI 2000 level Biology elective [not BIDI]	0-4
BI 3000/4000 level Biology elective [not BIDI]	4-0
Physical Science Group—complete four credits	4
PPDI Past and Present Directions	6
SSDI Self and Society Directions	6
Foreign Language (GACO)	8
Elective	2
	<u>30</u>

#### Year Three

	Credits
BI 2000 level Biology elective [not BIDI]	0-4
BI 3000/4000 level Biology electives [not BIDI]	12-8
BI 3060 Genetics	4
BI 3240 Conservation (DICO) (GACO) (INCO)	3
CTDI Creative Thought Direction	3
Electives	8
	<u>30</u>

#### Year Four

	Credits
BI 3130 Evolution	4
BI 4960 Biology Seminar	1
BI 3000/4000 level Biology elective (WRCO) [not BIDI]	4
WECO Wellness Connection	3
Electives	18
	<u>30</u>
<b>Total</b>	<b>120</b>

General Chemistry should only be taken in the first year if the student does well on the mathematics placement exam or has suitable math skills.

### BIOLOGY, Bachelor of Science

122 credits

The BS in Biology emphasizes cellular, physiological, and organismal biology. The program prepares students for advanced study or careers in the biomedical sciences, including medical, dental or veterinary school.

#### Degree Requirements

	Credits
BI 1110 Biological Science I (TECO)	4
BI 1120 Biological Science II	4
BI 3060 Genetics	4
BI 3130 Evolution	4
BI 3240 Conservation (DICO) (GACO) (INCO)	3
BI 4960 Biology Seminar	1
BI 3000/4000 level Biology electives [not BIDI]	12

Group A—complete one of the following:	4
BI 2030 Invertebrate Zoology	
BI 2040 Vertebrate Zoology	
BI 2070 Botany	
BI 2080 Plant Morphology	
Group B—complete four of the following, including the Writing in the Discipline Connection (WRCO):	16
BI 2110 Human Anatomy and Physiology I	
BI 2120 Human Anatomy and Physiology II	
BI 3040 Microbiology	
BI 4100 Cell Structure and Function	
BI 4180 Biotechnology (TECO) (WRCO)	
BI 4460 Electron Microscopy Techniques	
BI 4770 Animal Physiology (WRCO)	
BI 4780 Neurobiology (WRCO)	
CH 1050 Laboratory Safety	1
CH 2130 General Chemistry I (QRCO) (TECO)	3
CH 2140 General Chemistry II	3
CH 2230 General Chemistry Laboratory I	1
CH 2240 General Chemistry Laboratory II	1
CH 3020 Biochemistry I	4
CH 3310 Organic Chemistry I	3
CH 3320 Organic Chemistry II	3
CH 3330 Organic Chemistry Laboratory I	1
CH 3350 Organic Chemistry Laboratory II	1
Physics—complete (PH 2130 and PH 2140) or (PH 2410–PH 2440):	8
PH 2130 Physics I	
PH 2140 Physics II	
PH 2410 University Physics I	
PH 2420 University Physics II	
PH 2430 University Physics Laboratory I	
PH 2440 University Physics Laboratory II	
Mathematics Foundations—complete one of the following:	4
MA 2140 Elementary Functions (MATH)	
MA 2490 Applied Calculus I (MATH)	
MA 2550 Calculus I (MATH)	
<i>General Education:</i>	
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI Creative Thought Directions	6
PPDI Past and Present Directions	6
SSDI Self and Society Directions	6
WECO Wellness Connection	3
<i>Electives</i>	<u>10</u>
<b>Total</b>	<b>122</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One	Credits
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA Mathematics Foundations	4
BI 1110 Biological Science I (TECO)	4
BI 1120 Biological Science II	4
CH 1050 Laboratory Safety	1
CH 2130 General Chemistry I (QRCO) (TECO)	3
CH 2140 General Chemistry II	3
CH 2230 General Chemistry Laboratory I	1
CH 2240 General Chemistry Laboratory II	1
CTDI Creative Thought Direction	3
	<b>30</b>

Year Two	Credits
Group A—complete one course	4
BI 3060 Genetics	4
CH 3310 Organic Chemistry I	3
CH 3320 Organic Chemistry II	3
CH 3330 Organic Chemistry Laboratory I	1
CH 3350 Organic Chemistry Laboratory II	1
CTDI Creative Thought Direction	3
PPDI Past and Present Directions	6
WECO Wellness Connection	3
Elective	<u>2</u>
	<b>30</b>

Year Three	Credits
Group B—complete four courses, including the Writing in the Discipline Connection (WRCO)	16
Physics—complete one sequence	8
SSDI Self and Society Directions	6
Elective	3
	<b>33</b>

Year Four	Credits
BI 3130 Evolution	4
BI 3240 Conservation (DICO) (GACO) (INCO)	3
BI 4960 Biology Seminar	1
BI 3000/4000 level Biology electives [not BIDI]	12
CH 3020 Biochemistry I	4
Elective	5
	<u>29</u>
<b>Total</b>	<b>122</b>

General Chemistry should only be taken in the first year if the student does well on the mathematics placement exam or has suitable math skills.

### BIOLOGICAL SCIENCE EDUCATION (7–12) OPTION 123 credits

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Biological Science Education Option are eligible for 7–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section.

Degree Requirements	Credits
Courses required for the Option are shown in boldface.	
BI 1110 Biological Science I (TECO)	4
BI 1120 Biological Science II	4
<b>Zoology Elective—complete one of the following:</b>	<b>4</b>
BI 2030 Invertebrate Zoology	
BI 2040 Vertebrate Zoology	
<b>Plant Elective—complete one of the following:</b>	<b>4</b>
BI 2070 Botany	
BI 2080 Plant Morphology	
BI 2110 Human Anatomy and Physiology I	4
BI 2120 Human Anatomy and Physiology II	4
BI 3020 Biochemistry I	4
BI 3040 Microbiology	4
BI 3060 Genetics	4
BI 3130 Evolution	4
BI 3240 Conservation (DICO) (GACO) (INCO)	3
<b>BI 4050 Ecology (QRCO) (WRCO)</b>	<b>4</b>
CH 1050 Laboratory Safety	1
CH 2130 General Chemistry I (QRCO) (TECO)	3
CH 2140 General Chemistry II	3

CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 3310	Organic Chemistry I	3
CH 3330	Organic Chemistry Laboratory I	1
ED 4420	Secondary Student Teaching	12
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	3
NS 2010	Introduction to Science Education	3
NS 4330	Science in the Secondary School	3
PH 2130	Physics I	4
PH 2140	Physics II	4
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3
Mathematics Foundations—complete one of the following:		4
MA 2140	Elementary Functions (MATH)	
MA 2490	Applied Calculus I (MATH)	
MA 2550	Calculus I (MATH)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
<b>Total</b>		<b>123</b>
Student Teaching requires a minimum cumulative grade point average of 2.50.		

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	4
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
NS 2010	Introduction to Science Education	3
CTDI	Creative Thought Direction	3
		33
Year Two		Credits
Zoology Elective		4
Plant Elective		4
BI 2110	Human Anatomy and Physiology I	4
BI 2120	Human Anatomy and Physiology II	4
CH 3310	Organic Chemistry I	3
CH 3330	Organic Chemistry Laboratory I	1
SE 3090	Introduction to Special Education: Middle and Secondary	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Directions	6
		32
Year Three		Credits
BI 3020	Biochemistry I	4
BI 3040	Microbiology	4
BI 3060	Genetics	4

PH 2130	Physics I	4
PH 2140	Physics II	4
PS 3190	Development and Understanding (WECO)	3
SSDI	Self and Society Directions	6
		29

Year Four		Credits
BI 3130	Evolution	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
BI 4050	Ecology (QRCO) (WRCO)	4
ED 4420	Secondary Student Teaching	12
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	3
NS 4330	Science in the Secondary School	3
		29
<b>Total</b>		<b>123</b>

General Chemistry should only be taken in the first year if the student does well on the mathematics placement exam or has suitable math skills.

#### BIOTECHNOLOGY, Bachelor of Science 122 credits

This major focuses on biology at the molecular level and reflects the importance of science at the biology/chemistry interface. Independent laboratory work is emphasized and the senior research project is mandatory. The program prepares students for work in the field of biotechnology as well as industries such as chemical companies, pharmaceutical companies, and environmental firms. This major also provides students with the core courses required for admission to professional and graduate schools.

Degree Requirements		Credits
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
BI 3040	Microbiology	4
BI 3060	Genetics	4
BI 4100	Cell Structure and Function	4
BI 4180	Biotechnology (TECO) (WRCO)	4
BI 4200	Senior Research	4
BI/CH Major electives [not BIDI/CHDI]		8
Introduction to Research—complete one of the following:		2
BI 4190	Introduction to Research	
CH 4190	Introduction to Research	
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
Mathematics requirement—complete two of the following:		7–8
MA 2140	Elementary Functions (MATH)	
MA 2300	Statistics I (MATH)	
MA 2490	Applied Calculus I (MATH)	
MA 2500	Applied Calculus II (QRCO)	
MA 2550	Calculus I (MATH)	
MA 2560	Calculus II (QRCO)	
Physics—complete (PH 2130 and PH 2140) or (PH 2410–PH 2440):		8
PH 2130	Physics I	
PH 2140	Physics II	
PH 2410	University Physics I	
PH 2420	University Physics II	
PH 2430	University Physics Laboratory I	
PH 2440	University Physics Laboratory II	

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3

*Electives*

10–9

**Total**

122

Those who satisfy the Biological Science requirement by exam or Advanced Placement must choose eight credits from introductory Zoology or Botany courses (BI 2030, BI 2040, BI 2070, BI 2080). Biotechnology majors may **not** declare the Biology minor.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 2250	Techniques in Laboratory Chemistry	2
Mathematics requirement—complete two courses		7–8
		32–33

Year Two		Credits
BI 3040	Microbiology	4
BI 3060	Genetics	4
CH 3020	Biochemistry I	4
CH 3310	Organic Chemistry I	3
CH 3320	Organic Chemistry II	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3350	Organic Chemistry Laboratory II	1
CTDI	Creative Thought Directions	6
WECO	Wellness Connection	3
Elective		2–1
		31–30

Year Three		Credits
BI 4100	Cell Structure and Function	4
BI 4180	Biotechnology (TECO) (WRCO)	4
Introduction to Research—complete one course		2
Physics—complete one sequence		8
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
		30

Year Four		Credits
BI 4200	Senior Research	4
BI/CH	Major electives [not BIDI/CHDI]	8
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
Electives		8
		29
<b>Total</b>		122

**ENVIRONMENTAL BIOLOGY, Bachelor of Science 122 credits**

The BS in Environmental Biology focuses on organismal, evolutionary, ecological, and field biology. This degree prepares students for careers in the environmental biology field, including environmental consulting firms, environmental education groups, and governmental agencies. It also provides a foundation for post-graduate study.

**Degree Requirements****Credits**

BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
Group A—complete two of the following:		8
BI 2030	Invertebrate Zoology	
BI 2040	Vertebrate Zoology	
BI 2070	Botany	
Group B—complete two of the following:		8
BI 3040	Microbiology	
BI 3250	Ornithology	
BI 3260	Freshwater Ecology	
BI 4760	Animal Behavior (WRCO)	
BI 4770	Animal Physiology (WRCO)	
BI 3060	Genetics	4
BI 3130	Evolution	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
BI 4050	Ecology (QRCO) (WRCO)	4
BI 4800	Current Environmental Issues	3
BI 4960	Biology Seminar	1
BI 3000/4000 level Biology electives [not BIDI]		12
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3
CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CH 3310	Organic Chemistry I	3
CH 3330	Organic Chemistry Laboratory I	1
CH 3420	Environmental Chemistry	4
Physics—complete PH 2130 or (PH 2410 and PH 2430):		4
PH 2130	Physics I	
PH 2410	University Physics I	
PH 2430	University Physics Laboratory I	
Mathematics Foundations—complete one of the following:		4
MA 2140	Elementary Functions (MATH)	
MA 2490	Applied Calculus I (MATH)	
MA 2550	Calculus I (MATH)	

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		15
<b>Total</b>		122

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	4
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
CH 1050	Laboratory Safety	1
CH 2130	General Chemistry I (QRCO) (TECO)	3



CH 2140	General Chemistry II	3
CH 2230	General Chemistry Laboratory I	1
CH 2240	General Chemistry Laboratory II	1
CTDI	Creative Thought Direction	3
		<u>30</u>

<b>Year Two</b>	<b>Credits</b>
Group A—complete two courses	8
CH 3310 Organic Chemistry I	3
CH 3330 Organic Chemistry Laboratory I	1
CTDI Creative Thought Direction	3
PPDI Past and Present Directions	6
SSDI Self and Society Directions	6
Elective	3
	<u>30</u>

<b>Year Three</b>	<b>Credits</b>
Group B—complete two courses	8
BI 3060 Genetics	4
BI 3130 Evolution	4
BI 3000/4000 level Biology elective [not BIDI]	4
CH 3420 Environmental Chemistry	4
Physics—complete one course	4
WECO Wellness Connection	3
	<u>31</u>

<b>Year Four</b>	<b>Credits</b>
BI 3240 Conservation (DICO) (GACO) (INCO)	3
BI 4050 Ecology (QRCO) (WRCO)	4
BI 4800 Current Environmental Issues	3
BI 4960 Biology Seminar	1
BI 3000/4000 level Biology electives [not BIDI]	8
Electives	<u>12</u>
	<u>31</u>

**Total** **122**

General Chemistry should only be taken in the first year if the student does well on the mathematics placement exam or has suitable math skills.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

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#### **BIOLOGY MINOR** **20 credits**

Students should complete 12 credits of lower-level (1000/2000) and eight credits of upper-level (3000/4000) biological science courses in order to complete this minor. It is also recommended that students contact the Chair of the Department.

## Department of Business

**Department of Business**, Hyde Hall

*Chair:* Trent E. Bogges

*Assistant Chair:* Richard E. Sparks

*Professors:* Bonnie L. Bechard, Mehmet Canlar, Edward Harding, Soo M. Jang, Frank J. Kopczyński, David M. Leuser, Barton L. Macchiette, Warren E. Mason Jr., Duncan C. McDougall, Daniel P. Moore

*Associate Professors:* Roger O. Babin, L. Michael Couvillion, Vedran Lelas

*Assistant Professors:* C. Brad Allen, Samuel D. Brickley II, Jonathan Darrow, Aditi Grover, Yvette J. Lazdowski, Soung (Daniel) Lee, Terence M. Murphy, Roxanna Wright

*Contract Faculty:* Eileen E. Bennett, Colleen C. Brickley, Deborah M. Burnell, Terri Dautcher, David C. Talbot, Bruce Wiggett, Sr., Craig D. Zamzow

All degree programs offered by the Department of Business are nationally accredited by the Association of Collegiate Business Schools and Programs.

### Undergraduate Honors Program in Business

The Business Honors Program is a sequence of specially designated sections of the Department's required courses. Honors sections are enhanced to challenge highly motivated students by incorporating supplemental research, readings, and classroom activities. The goal of each class is to provoke intellectual curiosity and thus develop a heightened understanding of the subject matter. The Program is open to all students who have demonstrated excellence in their academic endeavors. Student transcripts will indicate each completed honors course. Continuing students must maintain a grade point average of 3.25. To have the notation of "Business Honors Program Graduate" placed on their transcripts, students must be in good standing in the Program at the time of graduation and have completed at least 11 Business Honors courses.

#### Course Sequence:

##### Fall Honors Courses

##### First Year

Principles of Marketing  
Business Computer Applications  
Business Law

##### Second Year

Management Accounting  
Microeconomics

##### Third Year

Financial Management  
Organizational Behavior

##### Fourth Year

Administrative Policy

##### Spring Honors Courses

Business Statistics  
Financial Accounting  
Macroeconomics

Information Technology  
Organizational  
Communications

Operations Management

Participation in any Honors section is limited to available space, with preference given to students with the earliest date of entry into the Program and highest grade point average. Faculty may, at their discretion, admit a student who is not currently a member of the Honors Program, provided that all Program participants desiring the class have been accommodated. Class size will usually be smaller than typical sections of the course so as to allow time for sufficient interaction, writing, and written examinations forms.

## ACCOUNTING, Bachelor of Science

**122 credits**

The BS in Accounting prepares graduates for many careers in industry, public, governmental or non-profit accounting. Students are encouraged to seek certification as a management accountant (CMA) or as a public accountant (CPA) upon graduation. Graduates of the Accounting program are well prepared for entry into the accounting profession and also have the background needed to advance into high level management and finance positions.

### Degree Requirements

		Credits
BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
BU 3110	Intermediate Accounting I	3
BU 3120	Intermediate Accounting II	3
BU 3140	Cost Accounting	3
BU 3170	Income Taxes	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
BU 3550	Investment Principles	3
BU 4040	Commercial Law	3
BU 4100	Accounting Information Systems	3
BU 4120	Advanced Accounting	3
BU 4150	Auditing	3
BU 4210	Auditing Practice	1
BU 4220	Administrative Policy (INCO)	3
BU 4390	Seminar in Finance	3
BU or EC 3000/4000	level Business or Economics elective [not BUDI/ECDI]	3
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
EC 3580	Managerial Statistics	3
EC 4460	Money and Banking	3
Mathematics Foundations	—complete one of the following:	3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection	—complete one of the following:	3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Elective</i>		<u>2–0</u>
		<b>122</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
BU 1100	Business Computer Applications (TECO)	3

BU 1150	Financial Accounting	4
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Directions	6
		31

Year Two		Credits
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 3140	Cost Accounting	3
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Elective	2–3
		33

Year Three		Credits
BU 3110	Intermediate Accounting I	3
BU 3120	Intermediate Accounting II	3
BU 3170	Income Taxes	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
BU 3550	Investment Principles	3
EC 3580	Managerial Statistics	3
CTDI	Creative Thought Direction	3
		30

Year Four		Credits
BU 4040	Commercial Law	3
BU 4100	Accounting Information Systems	3
BU 4120	Advanced Accounting	3
BU 4150	Auditing	3
BU 4210	Auditing Practice	1
BU 4220	Administrative Policy (INCO)	3
BU 4390	Seminar in Finance	3
EC 4460	Money and Banking	3
BU or EC 3000/4000 level Business or Economics elective [not BUDI/ECDI]		3
WECO	Wellness Connection	3
		28
<b>Total</b>		<b>122</b>

#### **BUSINESS ADMINISTRATION, Bachelor of Science 122 credits**

The BS degree in Business Administration is designed for transfer students transferring in to Plymouth 60 or more credits. Most transfer students in this program will be able to complete all degree requirements in four semesters at Plymouth. The Business Administration major is available to all Plymouth students.

#### **Degree Requirements Credits**

Courses that must be taken at Plymouth are shown in boldface.

##### *Business Core:*

BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
<b>BU 2290</b>	<b>Organizational Communications (WRCO)</b>	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
<b>BU 3210</b>	<b>Financial Management</b>	3
<b>BU 3240</b>	<b>Information Technology</b>	3
<b>BU 3300</b>	<b>Operations Management</b>	3
BU 3420	Organizational Behavior (DICO)	3

<b>BU 4220</b>	<b>Administrative Policy (INCO)</b>	<b>3</b>
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
Mathematics Foundations—complete one of the following:		3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	

Quantitative Reasoning in the Discipline Connection—complete one of the following:

BU 2240	Business Statistics (QRCO)	3
MA 2300	Statistics I (QRCO)	

##### *Major:*

**BU/EC 3000/4000 level Business/Economics electives [not BUDI/ECDI]** **9**

##### *General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry*	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		33–31
		122

\* For students entering with 24 or more transfer credits, this course becomes an elective.

#### **Year Three at Plymouth Credits**

BU 2290	Organizational Communications (WRCO)	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU Business Core courses not transferred in		6
General Education courses not transferred in		13
		31

#### **Year Four at Plymouth Credits**

BU/EC 3000/4000 level Business/Economics electives [not BUDI/ECDI]		9
BU 4220	Administrative Policy (INCO)	3
General Education course not transferred in		1
Electives		18
		31

**Total 122**

#### **FINANCE, Bachelor of Science 122 credits**

The Bachelor of Science in Finance degree program of study offers a complete undergraduate survey of the discipline aimed at preparing students for employment in the field of finance and/or for further graduate work in the field. Basic accounting and quantitative skills, plus economic theory, provide the foundation for further exploring the financial management of the firm, the nature of capital markets, and various investment strategies. Additional areas of study include financial model building techniques and the impact of globalization on financial decision making.

#### **Degree Requirements Credits**

BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
BU 3100	Financial Modeling	3
BU 3210	Financial Management	3

BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
BU 3550	Investment Principles	3
BU 4220	Administrative Policy (INCO)	3
BU 4390	Seminar in Finance	3
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
EC 3510	Intermediate Macroeconomics	3
EC 3580	Managerial Statistics	3
EC 4460	Money and Banking	3
EC 4610	International Finance and Economic Policy	3
Finance Electives—complete two of the following:		6
BU 3170	Income Taxes	
BU 3530	Real Estate Investment and Finance	
BU 4600	Business Internship	
EC 3520	Intermediate Microeconomics	
EC 3600	Public Finance	
Mathematics Foundations—complete one of the following:		3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
Electives		15–13
		122

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
BU 1100	Business Computer Applications (TECO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
EC 2550	Macroeconomics (GACO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
		30
Year Two		Credits
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 3240	Information Technology	3
EC 2560	Microeconomics	3
PPDI	Past and Present Direction	3
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
WECO	Wellness Connection	3
		32

Year Three		Credits
BU 3100	Financial Modeling	3
BU 3210	Financial Management	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
EC 3510	Intermediate Macroeconomics	3
EC 3580	Managerial Statistics	3
SIDI	Scientific Inquiry Directions	6–8
Electives		6–4
		30

Year Four		Credits
BU 3550	Investment Principles	3
BU 4220	Administrative Policy (INCO)	3
BU 4390	Seminar in Finance	3
EC 4460	Money and Banking	3
EC 4610	International Finance and Economic Policy	3
Finance Electives—complete two courses		6
Electives		9
		30
<b>Total</b>		<b>122</b>

### MANAGEMENT, Bachelor of Science

**122 credits**

Management is an integrative profession. Effective managers are leaders, skilled in organizational, motivational, and analytical and quantitative problem solving. Plymouth's Management programs prepare graduates to manage change in a global marketplace, characterized by cultural diversity and advancing technology. With a Management major, graduates are qualified for positions in corporate, governmental, and non-profit sectors of the economy. The BS degree in Management provides students with a general understanding of management through a common 50 credit core. In addition, majors choose one of two options in General Management or Human Resource Management.

### GENERAL MANAGEMENT OPTION

The General Management Option is built for students who wish to develop career versatility across the management spectrum.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
BU 4220	Administrative Policy (INCO)	3
<b>BU/EC Business upper-level electives [not BUDI/ECDI]</b>		<b>9</b>
<b>Finance Electives—complete two of the following:</b>		<b>6</b>
BU 3100	Financial Modeling	
BU 3530	Real Estate Investment and Finance	
BU 3550	Investment Principles	
BU 4040	Commercial Law	
BU 4390	Seminar in Finance	
EC 3520	Intermediate Microeconomics	
EC 3600	Public Finance	
EC 4460	Money and Banking	
EC 4610	International Finance and Economic Policy	
<b>Human Resource Elective—complete one of the following:</b>		<b>3</b>

BU 3180	Human Resource Management	
BU 3410	Labor and Employment Law for Managers	
BU 4200	Training and Development	
BU 4240	Organizational Development	
BU 4260	Interpersonal Relations	
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
PS 2010	Introduction to General Psychology	3
Mathematics Foundations—complete one of the following:		3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		<u>21–19</u> 122

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
BU 1100	Business Computer Applications (TECO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
EC 2550	Macroeconomics (GACO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
		30

Year Two		Credits
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
EC 2560	Microeconomics	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Elective	3
		32

Year Three		Credits
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
<b>Human Resource Elective—complete one course</b>		3
SIDI	Scientific Inquiry Directions	6–8
	Electives	<u>9–7</u> 30

Year Four		Credits
BU 4220	Administrative Policy (INCO)	3
<b>BU/EC Business upper-level electives [not BUDI/ECDI]</b>		9
<b>Finance Elective—complete two courses</b>		6
WECO	Wellness Connection	3
	Electives	9
		30
<b>Total</b>		<b>122</b>

#### HUMAN RESOURCE MANAGEMENT OPTION

The Human Resource Management Option prepares students for careers managing compensation, benefits, recruitment, training, and development in organizations.

#### Degree Requirements

Courses required for the Option are shown in boldface.

BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
<b>BU 2440</b>	<b>Business, Ethics, and Society</b>	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
<b>BU 3180</b>	<b>Human Resource Management</b>	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
BU 4220	Administrative Policy (INCO)	3

#### Human Resource Electives—complete four of the following:

BU 3410	Labor and Employment Law for Managers	
BU 4200	Training and Development	
BU 4240	Organizational Development	
BU 4260	Interpersonal Relations	
BU 4600	Business Internship	
EC 4020	Labor Economics	
PS 3460	Industrial/Organizational Psychology	
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
PS 2010	Introduction to General Psychology	3
Mathematics Foundations—complete one of the following:		3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		<u>21–19</u> 122

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
BU 1100	Business Computer Applications (TECO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
EC 2550	Macroeconomics (GACO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
		30
<b>Year Two</b>		<b>Credits</b>
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
<b>BU 2440</b>	<b>Business, Ethics, and Society</b>	3
EC 2560	Microeconomics	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Direction	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
		32
<b>Year Three</b>		<b>Credits</b>
<b>BU 3180</b>	<b>Human Resource Management</b>	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3420	Organizational Behavior (DICO)	3
SIDI	Scientific Inquiry Directions	6–8
	Electives	9–7
		30
<b>Year Four</b>		<b>Credits</b>
BU 4220	Administrative Policy (INCO)	3
<b>Human Resource Electives—complete four courses</b>		<b>12</b>
WECO	Wellness Connection	3
	Electives	12
		30
<b>Total</b>		<b>122</b>

**MARKETING, Bachelor of Science****122 credits**

The BS degree in Marketing prepares students for one of the most exciting and vital areas in any business enterprise: marketing. The study of marketing provides the necessary qualitative and quantitative skills to be successful in careers throughout the business spectrum. Specifically, this program exposes students to areas of relationship marketing that integrate advertising, sales, consumer service, public relations, promotion, retailing, wholesaling, product management, direct marketing, marketing management, and marketing research. In addition to the Marketing course offerings, students are encouraged to explore the professional marketing community by participating in opportunities such as marketing internships, advanced marketing projects, and student membership in marketing organizations. Additionally, students are strongly encouraged to pursue a minor in an academic discipline other than business.

<b>Degree Requirements</b>		<b>Credits</b>
BU 1100	Business Computer Applications (TECO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4

BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3340	Consumer Behavior	3
BU 3360	Marketing Research	3
BU 3420	Organizational Behavior (DICO)	3
BU 4220	Administrative Policy (INCO)	3
BU 4250	Marketing Management	3
Marketing Electives—complete three of the following:		9
BU 3050	Special Topics in Marketing	
BU 3230	Sales Management	
BU 3320	E–Commerce	
BU 3370	Advertising and Promotion Management	
BU 3600	Corporate Public Relations	
BU 4440	Global Marketing	
BU 4600	Business Internship (three credits)	
BU 4910	Independent Study	
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
EC 3580	Managerial Statistics	3
Mathematics Foundations—complete one of the following:		3
MA 2200	Finite Mathematics	
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		<u>21–19</u>
		122

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
BU 1100	Business Computer Applications (TECO)	3
BU 2450	Principles of Marketing	3
BU 2480	Business Law	3
EC 2550	Macroeconomics (GACO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
		30
<b>Year Two</b>		<b>Credits</b>
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
BU 2290	Organizational Communications (WRCO)	3
BU 3340	Consumer Behavior	3
EC 2560	Microeconomics	3
PPDI	Past and Present Direction	3



SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
WECO	Wellness Connection	3
		32

Year Three		Credits
BU 3210	Financial Management	3
BU 3240	Information Technology	3
BU 3300	Operations Management	3
BU 3360	Marketing Research	3
BU 3420	Organizational Behavior (DICO)	3
BU	Marketing Electives	6
EC 3580	Managerial Statistics	3
SIDI	Scientific Inquiry Directions	6-8
	Elective	2-0
		32

Year Four		Credits
BU 4220	Administrative Policy (INCO)	3
BU 4250	Marketing Management	3
BU	Marketing Elective	3
	Electives	19
		28
<b>Total</b>		<b>122</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

#### **BUSINESS ADMINISTRATION MINOR 18 credits**

The Business Administration minor is designed to provide liberal arts majors with fundamental business knowledge. A student who has completed this minor is qualified to apply for the Plymouth State University Masters in Business Administration (MBA) program without further prerequisites.

		Credits
BU 1500	Financial Reporting and Analysis	3
BU 2450	Principles of Marketing	3
BU 3420	Organizational Behavior (DICO)	3
EC 2000	Survey of Modern Economics	3
Complete two of the following, one of which must be at the 3000/4000 level:		6
BU 1100	Business Computer Applications	
BU 2290	Organizational Communications	
BU 2480	Business Law	
BU 3180	Human Resource Management	
BU 3240	Information Technology	
BU 3320	E-Commerce	
BU 3340	Consumer Behavior	
BU 3410	Labor and Employment Law for Managers	
BU 3560	Land Use Law and Development	
BU 3720	Career Development (INCO) (WECO)	
BU 4200	Training and Development	
BU 4260	Interpersonal Relations	
BU 4440	Global Marketing	

#### **ECONOMICS MINOR 15 or 18 credits**

The minor in Economics is defined by a sequence of five or six courses that provide students with a substantive overview of the various fields in economics. The courses are taken in two groups, as outlined below.

##### **Group I Credits**

Courses listed in this group are the primary component of the student's exploration of the field of economics. When possible, the courses should be taken in the order suggested.

Complete either EC 2000 or (EC 2550 and EC 2560) 3 or 6

EC 2000 Survey of Modern Economics

EC 2550 Macroeconomics (GACO)

EC 2560 Microeconomics

Complete one of the following: 3

EC 3510 Intermediate Macroeconomics

EC 3520 Intermediate Microeconomics

EC 4460 Money and Banking 3

##### **Group II**

Courses listed in this group are the second component of the student's exploration of the field of economics. The student must complete two of the following: 6

BU 3550 Investment Principles

EC 3480 Development of Economic Thought

EC 3510 Intermediate Macroeconomics (if not selected above)

EC 3520 Intermediate Microeconomics (if not selected above)

EC 3580 Managerial Statistics

EC 3600 Public Finance

EC 4020 Labor Economics

EC 4440 International Economics

EC 4610 International Finance and Economic Policy

EC 4910 Independent Study

HIDI 2310 American Economic Development (PPDI)

WS 4010 Women and the Economy

#### **HUMAN RESOURCE MANAGEMENT MINOR 15 credits**

Students are encouraged to discuss their goals and objectives with a Business faculty advisor in order to design a minor that closely addresses their desires.

##### **Credits**

BU 2480 Business Law 3

BU 3420 Organizational Behavior (DICO) 3

Complete three of the following: 9

BU 3180 Human Resource Management

BU 3410 Labor and Employment Law for Managers

BU 4200 Training and Development

BU 4240 Organizational Development

BU 4260 Interpersonal Relations

BU 4600 Business Internship (three credits in Human Resource field)

PS 3460 Industrial/Organizational Psychology

## Department of Communication and Media Studies

Department of Communication and Media Studies, Hyde Hall

Chair: Kylo-Patrick R. Hart

Professors: Warren E. Mason Jr., Evelyn M. Stiller

Associate Professors: Catherine F. LeBlanc, Metasebia Woldemariam

Assistant Professors: Annette M. Holba, Eun-Ho Yeo

### COMMUNICATION STUDIES, Bachelor of Arts 120 credits

The BA in Communication Studies is an interdisciplinary degree that allows students to investigate communication processes and effects from a variety of perspectives. Students receive a broad-based liberal arts education through a series of courses that offers significant opportunities for selecting classes to meet individual interests and needs.

The BA degree provides students with a solid understanding of communication technology, theory, and research methods as part of a common 15 credit core. In addition, students complete a 30 credit option in either Film and Media Studies or Professional Communication.

The Capstone Senior Project or Capstone Internship offers students a capstone opportunity to demonstrate their grasp of communication theory and application in relation to their primary areas of study. A minimum of 24 credits in the major must be completed at the 3000/4000 level.

### FILM AND MEDIA STUDIES OPTION

The Option in Film and Media Studies enables students to explore media history, theory, criticism, and production in relation to a variety of media forms, including film, television, and emerging technologies. Students learn to effectively analyze, create, and understand the effects of media offerings of all kinds. They are also introduced, through regular course topics and screenings, to a wide range of noteworthy media offerings that have been created and disseminated in various historical eras, including both early and contemporary films, television programs, print and online artifacts, and video games. This course of study is recommended for students who plan careers or graduate study in the fields of advertising, broadcast journalism, film, marketing, media studies, media writing, online communication, print journalism, public relations, television, and related areas.

### Degree Requirements

Courses required for the Option are shown in boldface.

	Credits
CM 2770 Introduction to Media and Cultural Studies (TECO)	3
CM 2910 Introduction to Communication	3
CM 3480 <b>Global Perspectives in the Media (GACO)</b>	3
CM 3490 <b>History and Theory of Film and Television</b>	3
CM 3500 <b>Media Effects</b>	3
CM 3640 Communication Theory (WRCO)	3
CM 3650 Communication Research Methods (QRCO)	3
Capstone—complete one of the following:	3
CM 4000 Capstone Senior Project	
CM 4550 Capstone Internship	
<b>Group A—complete one of the following:</b>	<b>3</b>
BU 3600 <b>Corporate Public Relations</b>	
CM 3750 <b>Film and Video Production Techniques</b>	
CM 3870 <b>Introduction to Game Design and Development</b>	
EN 3090 <b>Technical Communication</b>	
EN 3120 <b>Advanced Composition</b>	
EN 3130 <b>Non-Fiction Workshop</b>	
EN 3670 <b>Journalism</b>	
EN 3680 <b>Scriptwriting</b>	
MU 4110 <b>Advanced MIDI and Film Scoring</b>	
TH 2720 <b>Acting I</b>	

Group B—complete two of the following:

6

AH 2700	<b>Frameworks of Art: 1900–Present</b>
AN 2210	<b>Cultural Anthropology (GACO)</b>
CM 3510	<b>Approaching Communication, Media, and Wellness: Theory and Practice of Leisure (WECO)</b>
CM 3800	<b>Analyzing Television (INCO)</b>
HI 3520	<b>The Great Depression in Film, Print, and on Stage (DICO) (INCO)</b>
HI 3530	<b>US Home Fronts: The 1940s and 1950s (DICO)</b>
HI 3540	<b>Recent Times: The United States, 1960–2000 (DICO)</b>
HI 3560	<b>Gilded Ages? The United States 1874–1929 (DICO)</b>
IS 4360	<b>Cultural Diversity and American Society (DICO) (INCO)</b>
IS 4370	<b>Hispanic Culture in the United States (DICO) (INCO)</b>
PO 3100	<b>American Political Thought</b>
SO 3350	<b>Sociology of Popular Culture</b>

Group C—complete four of the following (at least three of these courses must be at the 3000/4000 level):

12

AH 1110	<b>Survey of Art I</b>
AH 1120	<b>Survey of Art II</b>
AR 2600	<b>Photography I</b>
BU 2450	<b>Principles of Marketing</b>
BU 3320	<b>E-Commerce</b>
BU 3340	<b>Consumer Behavior</b>
BU 3370	<b>Advertising and Promotion Management</b>
CM 2400	<b>Public Speaking</b>
CM 3700	<b>Film as Popular Culture</b>
CM 3760	<b>Advanced Video Production</b>
CM 3770	<b>Advanced Video Art Production</b>
CM 3910	<b>Topics in Film and Media Studies</b>
CM 3920	<b>Topics in Screenwriting and Video Production</b>
CM 3950	<b>Internship</b>
CM 4700	<b>Film and Identity Politics (DICO)</b>
CM 4870	<b>Advanced Game Design and Development</b>
CM 4910	<b>Independent Study</b>
EN 2610	<b>Introduction to Film</b>
IS 3430	<b>The Life Cycle in Film</b>
IS 3500	<b>Film and Society: Perspective and Conflict</b>
PO 1030	<b>World Politics (GACO)</b>
PS 3030	<b>Social Psychology</b>
TH 3900	<b>Acting II</b>

### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		25–23
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

CM 4550 requires a minimum cumulative grade point average of 2.70.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CM 2770	Introduction to Media and Cultural Studies (TECO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Foreign Language (GACO)	8
		32

Year Two		Credits
CM 2910	Introduction to Communication	3
CM 3480	<b>Global Perspectives in the Media (GACO)</b>	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	6–4
		30

Year Three		Credits
CM 3490	<b>History and Theory of Film and Television</b>	3
CM 3500	<b>Media Effects</b>	3
CM 3640	Communication Theory (WRCO)	3
CM 3650	Communication Research Methods (QRCO)	3

#### Years Three and Four Credits

Group A—complete one course	3
Group B—complete two courses	6
Group C—complete four courses (at least three of these courses must be at the 3000/4000 level)	12
INCO Integration Connection	3

Year Four	Credits
Capstone—complete one course	3
Electives	19
<b>Total</b>	<b>120</b>

### PROFESSIONAL COMMUNICATION OPTION

The Option in Professional Communication enables students to explore various approaches to persuasive communication. Students learn to identify and apply theories and techniques that enable effective communication to occur in a variety of professional settings. They complete a series of required courses offered through the Departments of Business and Communication and Media Studies, and they round out their coursework with a range of interdisciplinary courses that correspond with their educational and professional interests. This course of study is recommended for students who plan careers or graduate study in the fields of business, communication, professional writing, promotion, sales, sports information, and related areas.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
CM 2770	Introduction to Media and Cultural Studies (TECO)	3
CM 2910	Introduction to Communication	3
CM 3640	Communication Theory (WRCO)	3
CM 3650	Communication Research Methods (QRCO)	3
Capstone—complete one of the following:		3
CM 4000	Capstone Senior Project	
CM 4550	Capstone Internship	

BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
Group A—complete two of the following:		6
BU 3320	E-Commerce	
BU 3340	Consumer Behavior	
BU 3370	Advertising and Promotion Management	
BU 3420	Organizational Behavior (DICO)	
BU 3600	Corporate Public Relations	
BU 4260	Interpersonal Relations	
Group B—complete two of the following:		6
AN 2210	Cultural Anthropology (GACO)	
AN 3900	Applied Anthropology	
CM 3510	Approaching Communication, Media, and Wellness: Theory and Practice of Leisure (WECO)	
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	
IS 4370	Hispanic Culture in the United States (DICO) (INCO)	
PO 1030	World Politics (GACO)	
PS 3030	Social Psychology	
PS 3260	Perception	
SO 3160	Women in World Development	
Group C—complete four of the following (at least three of these courses must be at the 3000/4000 level):		12
AH 1110	Survey of Art I	
AH 1120	Survey of Art II	
AH 2700	Frameworks of Art: 1900–Present	
AR 1040	Fundamentals of Art: Color and Design	
AR 2600	Photography I	
BU 3360	Marketing Research	
BU 4250	Marketing Management	
BU 4440	Global Marketing	
CM 2400	Public Speaking	
CM 3480	Global Perspectives in the Media (GACO)	
CM 3910	Topics in Film and Media Studies	
CM 3950	Internship	
CM 4910	Independent Study	
EN 3090	Technical Communication	
EN 3120	Advanced Composition	
EN 3130	Non-Fiction Workshop	
EN 3670	Journalism	
PY 2000	Basic Argumentation and Debate	
SO 3350	Sociology of Popular Culture	
TH 2260	Voice and Diction I	
TH 2720	Acting I	
Foreign language at intermediate or above level		

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		25–23
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

CM 4550 requires a minimum cumulative grade point average of 2.70.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CM 2910	Introduction to Communication	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Foreign Language (GACO)	8
		32

Year Two		Credits
CM 2770	Introduction to Media and Cultural Studies (TECO)	3
BU 2290	<b>Organizational Communications (WRCO)</b>	3
BU 2450	<b>Principles of Marketing</b>	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
	Electives	6–4
		30

Year Three		Credits
CM 3640	Communication Theory (WRCO)	3
CM 3650	Communication Research Methods (QRCO)	3
WECO	Wellness Connection	3
	Elective	3

Years Three and Four		Credits
Group A—complete two courses		6
Group B—complete two courses		6
Group C—complete four courses (at least three of these courses must be at the 3000/4000 level)		12
INCO	Integration Connection	3

Year Four		Credits
Capstone—complete one course		3
	Electives	16
<b>Total</b>		<b>120</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

### DIGITAL MEDIA AND GAME DESIGN MINOR 15–16 credits

The Digital Media and Game Design minor offers students the opportunity to create and critique digital media offerings of various kinds.

	Credits
CM 2770 Introduction to Media and Cultural Studies	3
CM 3870 Introduction to Game Design and Development	3
Complete three of the following courses (at least one of these courses must be at the 3000/4000 level):	9–10
CMDI 1100 Creating Games (CTDI)	
CMDI 1200 Web Expressions (CTDI)	
CMDI 2100 The Digital Imagination (CTDI)	
CMDI 2200 The Science of Animation Programming (SIDI)	
CM 3500 Media Effects	
CM 4870 Advanced Game Design and Development	

### MEDIA STUDIES MINOR

15 credits

Increasingly today, a thorough understanding of media offerings and their effects is essential for people who work in the fields of anthropology, art, business, education, information technology, the performing arts, political science, psychology, sociology, and related areas. Accordingly, the Media Studies minor offers students in-depth exploration of the history, theory, criticism, and effects of media offerings of all kinds.

	Credits
CM 2770 Introduction to Media and Cultural Studies	3
CM 3490 History and Theory of Film and Television	3
Complete nine credits selected from three of the following courses (at least one of these courses must be at the 3000/4000 level):	9
CMDI 1010 Mass Media, Jim Morrison, and the Doors (PPDI)	
CMDI 1020 Media Representations of College Students and College Life (SSDI)	
CMDI 2010 Outlaws, Delinquents, and Other “Deviants” in Film and Society (SSDI)	
CMDI 2020 Sex and Cinema in the 20th Century (and Beyond) (PPDI)	
CM 2910 Introduction to Communication	
CM 3480 Global Perspectives in the Media (GACO)	
CM 3500 Media Effects	
CM 3640 Communication Theory	
CM 3700 Film as Popular Culture	
CM 3800 Analyzing Television (INCO)	
CM 3910 Topics in Film and Media Studies	
CM 4700 Film and Identity Politics (DICO)	

### PROFESSIONAL COMMUNICATION MINOR

15 credits

The Professional Communication minor offers students the opportunity to explore theories and techniques that enable effective communication to occur in a variety of professional settings.

	Credits
CM 2910 Introduction to Communication	3
CM 3640 Communication Theory	3
BU 2290 Organizational Communications	3
Complete six credits selected from two of the following courses (at least one of these courses must be at the 3000/4000 level):	6
BU 2450 Principles of Marketing	
BU 3320 E-Commerce	
BU 3340 Consumer Behavior	
BU 3370 Advertising and Promotion Management	
BU 3420 Organizational Behavior (DICO)	
BU 3600 Corporate Public Relations	
BU 4260 Interpersonal Relations	
CM 2770 Introduction to Media and Cultural Studies	
CM 3500 Media Effects	
EN 3090 Technical Communication	
EN 3670 Journalism	

## Department of Computer Science and Technology

Department of Computer Science and Technology, Memorial Hall

Chair: Roger G. Marshall

Professors: Peter G. Drexel, Zhizhang Shen

Assistant Professor: Christian A. Roberson

Adjunct Faculty: Donald H. Bailey, Daryl Browne, Mark M. Henwood,  
Roger Kleinpeter, James C. Sullivan, Theodore T. Wisniewski,  
Zachary B. Tirrell

### COMPUTER SCIENCE, Bachelor of Science 120 credits

The BS Computer Science degree program has been accredited by the Computing Accreditation Commission of ABET, Inc., the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education. ABET is a not-for-profit organization, owned and operated by its more than 25 professional and technical member societies. An internationally respected organization with some 1,500 volunteers, ABET has set the higher-educational standards in its fields for nearly 75 years. More information about ABET, its member societies, and the evaluation criteria used to accredit programs can be found at [www.abet.org](http://www.abet.org).

This program focuses on the design and development of software systems with an emphasis on the creation of new technology. Students will build a framework of conceptual knowledge and practical skills through core computer science courses. A broad selection of electives offers the opportunity to delve into several of the application areas of Computer Science. Auxiliary courses in mathematics and science develop additional analytical skills necessary for success in the many computing specialties graduates typically choose.

Degree Requirements	Credits
CS 2010 Computing Fundamentals (TECO)	3
CS 2220 Computer Hardware	3
CS 2370 Programming in Java	4
CS 2380 Client/Server Programming	3
CS 2470 Systems Programming in C/C++	2
CS 3220 Data Structures and Algorithm Analysis	4
CS 3600 Database Management Systems	4
CS 3780 Introduction to Computational Theory	3
CS 4140 Software Engineering	3
CS 4250 Computer Architecture	3
CS 4310 Operating Systems	3
CS 4520 CyberEthics (DICO) (INCO) (WRCO)	3
CS 4750 Senior Project	3
Computer Science Major Electives—complete two of the following:	6
CS 3240 Data Communication and Computer Networks	
CS 3500 Introduction to Artificial Intelligence	
CS 3700 Computer Graphics	
CS 3820 Human-Computer Interaction	
CS 4220 System Administration	
CS 4400 Computer Networks and Protocols	
CS 4420 Computer Security	
CS 4920 Computer Science Internship (maximum of three credits)	
MA 2300 Statistics I (QRCO)	3
MA 3200 Discrete Mathematics	3
Calculus—complete one sequence of (MA 2490–2500) or (MA 2550–2560):	8
MA 2490 Applied Calculus I (MATH)	
MA 2500 Applied Calculus II (QRCO)	
MA 2550 Calculus I (MATH)	
MA 2560 Calculus II (QRCO)	

Mathematics upper-level elective—complete one of the following:	3
MA 3120 Elements of Linear Algebra	
MA 3410 Numerical Methods Using the Computer	
PH 2410 University Physics I	3
PH 2420 University Physics II	3
PH 2430 University Physics Laboratory I	1
PH 2440 University Physics Laboratory II	1
Science course with laboratory [not BIDI/CHDI/ESDI/MTDI/NSDI/PHDI]	4
<b>General Education:</b>	
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI Creative Thought Directions	6
PPDI Past and Present Directions	6
SSDI Self and Society Directions	6
GACO Global Awareness Connection	3
WECO Wellness Connection	3
<b>Electives</b>	<b>14</b>
<b>Total</b>	<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One	Credits
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CS 2010 Computing Fundamentals (TECO)	3
CS 2370 Programming in Java	4
Calculus—complete one two-semester sequence	8
CTDI Creative Thought Directions	6
PPDI Past and Present Direction	3
	30

Year Two	Credits
CS 2220 Computer Hardware	3
CS 2380 Client/Server Programming	3
CS 2470 Systems Programming in C/C++	2
CS 3220 Data Structures and Algorithm Analysis	4
CS 3600 Database Management Systems	4
MA 2300 Statistics I (QRCO)	3
MA 3200 Discrete Mathematics	3
PPDI Past and Present Direction	3
SSDI Self and Society Directions	6
	31

Year Three	Credits
Mathematics upper-level elective—complete one course	3
PH 2410 University Physics I	3
PH 2420 University Physics II	3
PH 2430 University Physics Laboratory I	1
PH 2440 University Physics Laboratory II	1
Science course with laboratory [not BIDI/CHDI/ESDI/MTDI/NSDI/PHDI]	4
GACO Global Awareness Connection	3
WECO Wellness Connection	3
Electives	6

Years Three and Four	Credits
CS 3780 Introduction to Computational Theory	3
CS 4140 Software Engineering	3
CS 4520 CyberEthics (DICO) (INCO) (WRCO)	3
Computer Science Major Electives—complete two courses	6



Year Four		Credits
CS 4250	Computer Architecture	3
CS 4310	Operating Systems	3
CS 4750	Senior Project	3
	Electives	8
<b>Total</b>		<b>120</b>

### INFORMATION TECHNOLOGY, Bachelor of Science 120 credits

This program focuses on the functioning and workings of hardware and software systems in an organizational setting. The emphasis in the program is on the application and utilization of computing technology in a wide variety of Information Technology environments. A solid core of fundamental computing courses is followed by applications in several areas of Information Technology such as networks, multimedia, and systems.

Degree Requirements		Credits
CS 2010	Computing Fundamentals (TECO)	3
CS 2080	Visual Basic	3
CS 2220	Computer Hardware	3
CS 2370	Programming in Java	4
CS 2380	Client/Server Programming	3
CS 3240	Data Communication and Computer Networks	3
CS 3600	Database Management Systems	4
CS 3720	Systems Analysis and Design	3
CS 4220	System Administration	3
CS 4400	Computer Networks and Protocols	4
CS 4420	Computer Security	3
CS 4520	CyberEthics (DICO) (INCO) (WRCO)	3
CS 4750	Senior Project	3

Information Technology Major Electives—complete two of the following: 5–6

CS 2350	Software Tools	
CS 2470	Systems Programming in C/C++	
CS 3020	Web Programming	
CS 3220	Data Structures and Algorithm Analysis	
CS 3440	Multimedia	
CS 3500	Introduction to Artificial Intelligence	
CS 3700	Computer Graphics	
CS 3780	Introduction to Computational Theory	
CS 3820	Human–Computer Interaction	
CS 4140	Software Engineering	
CS 4250	Computer Architecture	
CS 4310	Operating Systems	
CS 4920	Computer Science Internship (maximum of three credits)	

EN 3090	Technical Communication (TECO)	3
MA Math electives MA 1800, MA 2140 or above [not MADI]		6
MA 2200	Finite Mathematics (QRCO)	3

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3

<i>Electives</i>	<u>25–22</u>
<b>Total</b>	<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA Math elective MA 1800, MA 2140 or above (MATH) [not MADI]		3
CS 2010	Computing Fundamentals (TECO)	3
CS 2370	Programming in Java	4
MA 2200	Finite Mathematics (QRCO)	3
CTDI	Creative Thought Directions	6
SSDI	Self and Society Directions	6
		31

Year Two		Credits
CS 2080	Visual Basic	3
CS 2220	Computer Hardware	3
CS 2380	Client/Server Programming	3
MA Math elective MA 1800, MA 2140 or above [not MADI]		3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
GACO	Global Awareness Connection	3
	Elective	4–2
		31

Year Three		Credits
CS 3240	Data Communication and Computer Networks	3
CS 3600	Database Management Systems	4
CS 3720	Systems Analysis and Design	3
EN 3090	Technical Communication (TECO)	3

Years Three and Four		Credits
CS 4400	Computer Networks and Protocols	4
CS 4520	CyberEthics (DICO) (INCO) (WRCO)	3
Information Technology Major Electives—complete two courses		5–6
WECO	Wellness Connection	3
	Electives	14–13

Year Four		Credits
CS 4220	System Administration	3
CS 4420	Computer Security	3
CS 4750	Senior Project	3
	Electives	7
<b>Total</b>		<b>120</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

### COMPUTING MINOR 19 credits

The minor in Computing allows students to choose an area of concentration in Computer Science, such as programming or networks. A minimum of two of the courses in the minor must be taken at Plymouth State University, with at least one of them at the 3000/4000 level. Students intending to take the minor in Computing should consult with a Computer Science faculty advisor to determine which courses best suit their needs.

		Credits
CS 2010	Computing Fundamentals	3
CS 2220	Computer Hardware	3
CS 2370	Programming in Java	4
CS 2380	Client/Server Programming	3
CS 3000/4000 level Computer Science courses		6



Several upper-level courses have prerequisites that are not covered by the required courses. Students must select courses carefully.

#### **INFORMATION TECHNOLOGY MINOR**

**16 or 20 credits**

The minor in Information Technology is focused on information systems. A minimum of two courses in the minor must be taken at Plymouth State University, with at least one of them at the 3000/4000 level. Students intending to take the minor should consult with a Computer Science faculty advisor to determine which courses best suit their needs.

	<b>Credits</b>
CS 2010    Computing Fundamentals	3
CS 2370    Programming in Java	4
CS 3240    Data Communication and Computer Networks	3
Complete (CS 2380 and CS 3440 or CS 3820) or (CS 3600, CS 3720 and MA 2200):	6 or 10
CS 2380    Client/Server Programming	
CS 3440    Multimedia	
CS 3820    Human-Computer Interaction	
CS 3600    Database Management Systems	
CS 3720    Systems Analysis and Design	
MA 2200    Finite Mathematics	

#### **WEB TECHNOLOGY MINOR**

**16 credits**

The Internet and the World Wide Web play an ever-increasing role in our society. The Web Technology minor is designed for students who want to better understand how the Internet and the WWW work and their effects on our personal and professional lives. A minimum of two courses in the minor must be taken at Plymouth State University, with at least one of them at the 3000/4000 level.

	<b>Credits</b>
CS 1150    Introduction to Multimedia Technology	3
CSDI 1200    Web Expressions (CTDI)	3
CS 2370    Programming in Java	4
CS 3020    Web Programming	3
CS 3240    Data Communication and Computer Networks	3

## Department of Criminal Justice

Department of Criminal Justice, Mary Taylor House

Chair: David A. Mackey

Associate Professor: Francis Williams

Assistant Professors: Mark J. Fischler, Stephanie J. Halter, Kristine M. Miller

Visiting Faculty: Roderick MacLeish

### CRIMINAL JUSTICE, Bachelor of Arts 120 credits

The Department of Criminal Justice at Plymouth State University aims to serve students interested in careers in law enforcement, court administration, corrections, juvenile services, as well as graduate or law school. The Department also serves criminal justice agencies in the North Country and Lakes Region of New Hampshire by providing service and research support.

Students in Criminal Justice are exposed to a well-rounded liberal arts education that is interdisciplinary in nature. Therefore, students develop skills in a variety of areas including, but not limited to, problem solving techniques, communication skills, computing skills, and foreign language proficiency, along with an appreciation for ethical and professional behavior in the field. Upon completion of the program, students will have developed an independent sense of self, with a tolerance toward others and the ability to work in diverse cultures.

Students may transfer up to 50 percent of the required credits in the Criminal Justice BA degree program from an associate degree program. Students graduating with a BA in Criminal Justice must complete at least 50 percent of their credit hours through course work offered by Plymouth State University. For all students, at least 50 percent of the total course work for the major must be at the 3000/4000 level. The Department of Criminal Justice does not award course credit for life experience or training.

Degree Requirements	Credits
CJ 1010 The Criminal Justice System	3
CJ 2040 Criminal Adjudication	3
CJ 2070 Corrections	3
CJ 3050 The Law Enforcement Environment	3
CJ 3090 Criminology	3
CJ 3150 Society, Ethics, and the Law (DICO) (INCO)	3
CJ 4400 Research Methods in Criminal Justice	3
CJ 4800 Criminal Justice Seminar (WRCO)	3
CS 1170 Computing Technology in Criminal Justice (TECO)	3
SO 2220 Foundations of Sociology (DICO)	3
Major electives—complete two of the following:	6–7
AN 3170 Anthropology of Conflict and Law	
AN 3600 Bodies, Bones, and Disease	
CJ 3010 Forensic Science	
CJ 3030 Forensic Science Laboratory	
IS 4360 Cultural Diversity and American Society (DICO) (INCO)	
PO 3040 Political Islamic Fundamentalism	
PO 3630 Constitutional Law: Civil Liberties	
PO 3680 Public Policy Analysis	
PS 3030 Social Psychology	
PS 3700 Psychology and Law	
PS 4320 Abnormal Psychology	
SO 3030 Social Psychology	
SO 3070 The Sociology of the Family	
SO 3100 Urban Sociology	
SO 3180 Sociology of Deviance (DICO)	
SO 3370 Sociology of Race and Ethnicity	
SO 3380 Drugs and Society (INCO)	
SO 3450 Social Stratification	
SW 3100 Child Welfare and Family Services	
SW 3150 Child Maltreatment	

Quantitative Reasoning in the Discipline Connection—complete one of the following:	3
CJ 2350 Statistics for Criminal Justice (QRCO)	
MA 2300 Statistics I (QRCO)	
MA 2350 Statistics for Criminal Justice (QRCO)	
General Education:	
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA Mathematics Foundation	3
CTDI Creative Thought Directions	6
PPDI Past and Present Directions	6
SIDI Scientific Inquiry Directions	6–8
SSDI Self and Society Directions	6
WECO Wellness Connection	3
Foreign Language (GACO)	8
Electives	37–34
Total	120

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

Several of the Major Electives have prerequisites; see their course description for details.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One	Credits
EN 1200 Composition	3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA Mathematics Foundation	3
CJ 1010 The Criminal Justice System	3
CS 1170 Computing Technology in Criminal Justice (TECO)	3
CTDI Creative Thought Direction	3
PPDI Past and Present Direction	3
SSDI Self and Society Direction	3
Foreign Language (GACO)	8
	32

Year Two	Credits
CJ 2040 Criminal Adjudication	3
CJ 2070 Corrections	3
SO 2220 Foundations of Sociology (DICO)	3
CTDI Creative Thought Direction	3
PPDI Past and Present Direction	3
SIDI Scientific Inquiry Directions	6–8
SSDI Self and Society Direction	3
QRCO Quantitative Reasoning in the Discipline Connection	3
Elective	3–1
	30

Year Three	Credits
CJ 3050 The Law Enforcement Environment	3
CJ 3090 Criminology	3
CJ 4400 Research Methods in Criminal Justice	3
Major electives—complete two courses	6–7
Electives	15–14
	30

Year Four		Credits
CJ 3150	Society, Ethics, and the Law (DICO) (INCO)	3
CJ 4800	Criminal Justice Seminar (WRCO)	3
WECO	Wellness Connection	3
	Electives	19
		28
<b>Total</b>		<b>120</b>

**Complementary Courses:** Students in Criminal Justice are encouraged to consider a minor in another department that would interface with the field of Criminal Justice. Free electives could be used to fulfill the requirements for minors such as: Anthropology/Sociology, Child Welfare and Family Studies, Computing, French, Geographic Information Systems, Media Studies, Peace and Justice Studies, Political Science, Pre-Law, Psychology, Spanish or Web Technology.

## Department of Education

**Department of Education**, Rounds Hall

*Chair:* Marcel J. Lebrun

*Assistant Chair:* Robert S. Miller

*Professors:* Patricia A. Cantor, Michael L. Fischler, Patricia L. Lindberg

*Associate Professors:* Gerard E. Buteau, Mary M. Cornish, C. Lynn Davis, Marianne M. True

*Assistant Professors:* Royce L. Robertson, Lisa D. Spradley, Clarissa Uttley

*Instructor:* Kristen Williams

*Contract Faculty:* Irene M. Mosedale, Susan A. Shapiro

### CHILDHOOD STUDIES, Bachelor of Science 120 credits

This program provides the knowledge base necessary for working with children and families in a variety of settings. That knowledge base includes: theories of development, life-span development of the individual (both typical development and individual differences), contexts of development, interpersonal relationship skills, and personal and professional development. One option is available, the Teacher Certification (K-8) Option. Childhood Studies majors not electing an option are strongly encouraged to complete an internship and an academic minor.

Degree Requirements		Credits
CD 1000	Introduction to Childhood Studies (TECO)	3
CD 2001	Human Development I: Birth to Early Childhood	3
CD 2002	Human Development II: Middle Childhood to Late Adulthood (WRCO)	3
CD 2360	Foundations of Diversity (DICO)	3
CD 2540	Integrated Arts	3
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
CD 3210	Children and Families in Society	3
CD 4100	Contemporary Issues in Childhood Studies	3
MA 2110	Mathematics in Our World I (MATH)	4
MA 3010	Mathematics in Our World II (QRCO)	4
SE 2080	Children with Disabilities	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<i>49-47</i>
<b>Total</b>		<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2110	Mathematics in Our World I (MATH)	4
CD 1000	Introduction to Childhood Studies (TECO)	3
CD 2540	Integrated Arts	3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Direction	3-4
SSDI	Self and Society Direction	3
	Elective	<u>1-0</u>
		29

Year Two		Credits
CD 2001	Human Development I: Birth to Early Childhood	3
CD 2002	Human Development II: Middle Childhood to Late Adulthood (WRCO)	3
CD 2360	Foundations of Diversity (DICO)	3
SE 2080	Children with Disabilities	3
MA 3010	Mathematics in Our World II (QRCO)	4
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Direction	3-4
SSDI	Self and Society Direction	3
	Elective	1-0
		29

Year Three		Credits
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
CD 3210	Children and Families in Society	3
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
	Electives	19
		31

Year Four		Credits
CD 4100	Contemporary Issues in Childhood Studies	3
	Electives	28
		31
<b>Total</b>		<b>120</b>

#### TEACHER CERTIFICATION (K-8) OPTION

This Option prepares elementary school teachers to have the knowledge, skills, and dispositions necessary to create learning opportunities that support students' intellectual, social, and personal development. Inherent in this professional preparation is the promotion of sensitivity to the variety of learners; understanding and respect for diversity within student populations, families, and communities; and appropriate and effective integration of technology in instruction to support students' learning. The K-8 Teacher Certification Option provides the appropriate professional and field-based experience through collaborative public school/university partnerships that enable candidates to demonstrate both content and pedagogical knowledge in a K-8 learning environment. In light of No Child Left Behind requirements, students, who are specifically preparing to teach Middle School, are advised to seek certification and major in the subject area they plan to teach. Students seeking K-8 certification who anticipate they may want to teach in grades 5-8 are advised to minor in a content area such as mathematics, science, social science or English.

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for K-8 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. Receiving states may have a difference in elementary grade range and may impose certain special requirements that must be met within a reasonable period of time. For further information, please see the Teacher Education and Clinical Experiences section. A minimum cumulative grade point average of 2.50 is required for admission into Teacher Education candidacy; candidates are required to have a 2.70 grade point average to student teach. All full-time or part-time matriculated candidates in this Option are expected to make satisfactory academic progress toward their academic goals.

Degree Requirements	Credits
Courses required for the Option are shown in boldface.	
CD 1000	Introduction to Childhood Studies (TECO) 3
CD 2001	Human Development I: Birth to Early Childhood 3
CD 2002	Human Development II: Middle Childhood to Late Adulthood (WRCO) 3
CD 2360	Foundations of Diversity (DICO) 3
CD 2540	Integrated Arts 3
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO) 3
CD 3210	Children and Families in Society 3
MA 2110	Mathematics in Our World I (MATH) 4
MA 3010	Mathematics in Our World II (QRCO) 4
PE 2840	<b>Health and Fitness for Educators (WECO)</b> 3
PO 1020	<b>American Government</b> 3
SE 2080	Children with Disabilities 3
<b>Cluster I:</b>	
ED 3050	<b>Foundations of Teaching and Learning</b> 3
ED 3051	<b>Designing Positive Learning Communities</b> 3
ED 3052	<b>Assessing Children in Schools</b> 3
RL 3050	<b>Foundations of Reading and Writing</b> 3
<b>Cluster II:</b>	
ED 3070	<b>Social Studies and Science Curriculum and Instruction</b> 3
ED 3080	<b>Teaching in the Content Areas Practicum</b> 1
MA 3070	<b>Knowing and Teaching Mathematics</b> 3
RL 3070	<b>Language Arts and Reading in the Elementary School</b> 3
SE 3070	<b>Classroom Applications in Inclusive Education</b> 3
<b>Cluster III:</b>	
ED 4300	<b>Elementary Student Teaching</b> 12
ED 4500	<b>Childhood Studies Teaching Seminar</b> 1
<i>General Education:</i>	
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3
CTDI	Creative Thought Directions 6
PPDI	Past and Present Directions 6
SIDI	Scientific Inquiry Directions 6-8
SSDI	Self and Society Directions 6
GACO	Global Awareness Connection 3
<i>Electives</i>	<i>11-9</i>
<b>Total</b>	<b>120</b>

Students applying for the Teacher Certification (K-8) Option must complete all First Year Experiences courses, all Directions courses, pass the Praxis, and have a 2.50 GPA and an up-to-date electronic portfolio, **before** being accepted into the Option. The Clusters, which compose much of this Option, would begin in the second half of the junior year and would be taken three semesters in succession. Elementary Student Teaching and Childhood Studies Teaching Seminar require a minimum cumulative grade point average of 2.70.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One	Credits
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3
MA 2110	Mathematics in Our World I (MATH) 4
CD 1000	Introduction to Childhood Studies (TECO) 3
CD 2540	Integrated Arts 3
CTDI	Creative Thought Direction 3
PPDI	Past and Present Direction 3

SIDI	Scientific Inquiry Direction	3-4
SSDI	Self and Society Direction	3
	Elective	<u>1-0</u>
		29
<b>Year Two</b>	<b>Credits</b>	
CD 2001	Human Development I: Birth to Early Childhood	3
CD 2002	Human Development II: Middle Childhood to Late Adulthood (WRCO)	3
CD 2360	Foundations of Diversity (DICO)	3
SE 2080	Children with Disabilities	3
MA 3010	Mathematics in Our World II (QRCO)	4
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Direction	3-4
SSDI	Self and Society Direction	3
GACO	Global Awareness Connection	3
	Elective	<u>1-0</u>
		32
<b>Year Three</b>	<b>Credits</b>	
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
CD 3210	Children and Families in Society	3
PE 2840	Health and Fitness for Educators (WECO)	3
PO 1020	American Government	3
Cluster I—complete all courses		12
	Electives	<u>6</u>
		30
<b>Year Four</b>	<b>Credits</b>	
Cluster II—complete all courses		13
Cluster III—complete all courses		13
	Elective	3
		29
<b>Total</b>		120

#### EARLY CHILDHOOD STUDIES, Bachelor of Science 120 credits

The BS in Early Childhood Studies prepares students for careers working with children from birth through eight years of age and their families. The Early Childhood Studies program is based on the principle that supporting the growth, development, and learning of young children is meaningful, challenging, and important work. Students will develop a strong theoretical and conceptual knowledge base while engaging in supervised field experiences in a variety of early childhood settings, including the nationally accredited Child Development and Family Center at PSU. The program is also grounded in the belief that children live and learn within families, cultures, and communities, and that to truly understand and appreciate each child, early childhood professionals must also learn about these broader contexts. Because early childhood professionals must work collaboratively with children, families, other professionals, community members and agencies, the program emphasizes effective communication and collaboration skills and openness to other perspectives.

All Early Childhood majors must choose at least one of the following options. These options emphasize the roles and responsibilities of all early childhood professionals and the knowledge and skills needed to be an effective leader and advocate.

Early Childhood Studies majors are strongly encouraged to complete an academic minor, selected in consultation with their academic advisor, to complement their interests and career goals. The BS in Early Childhood Studies also serves as a foundation to pursue advanced degrees in education, psychology, and the human services.

#### CONTRACT OPTION

This 21-credit option is designed by the student and his/her advisor and must be approved by the Department Chair. The 21 credits of the Option must be 3000/4000 level courses in Early Childhood (ER), Early Childhood Special Education (ERSE), and/or Education (ED). The student must have 15-30 credits left to take at Plymouth to declare this Option. In designing this Option the student should work with her/her advisor to develop a program that will support his/her career goals.

#### Degree Requirements Credits

Courses required for the Option are shown in boldface.

ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3
<b>ER, ERSE, and/or ED 3000/4000 level Contract courses [not ERDI, not ERSEDI, not EDDI]</b>		<b>18</b>
MA 2110	Mathematics in Our World I (MATH)	4
RL 2500	Language and Literacy Development in Young Children	3

#### Technology in the Discipline Connection—

complete one of the following: 3

ER 3800	Technology and Problem Solving Across the Primary Grade Curriculum (TECO)
ER 4300	Leadership, Advocacy, and Policy in Early Childhood (TECO)

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
Electives		<u>29-27</u>
<b>Total</b>		<b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2110	Mathematics in Our World I (MATH)	4
ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3

CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	<u>6</u>
		31
<b>Year Two</b>	<b>Credits</b>	
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3
RL 2500	Language and Literacy Development in Young Children	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	<u>2–0</u>
		32
<b>Year Three</b>	<b>Credits</b>	
<b>ER, ERSE, and/or ED 3000/4000 level Contract courses [not ERDI, not ERSEDI, not EDDI]</b>		
GACO	Global Awareness Connection	9
WECO	Wellness Connection	3
	Electives	<u>15</u>
		30

<b>Year Four</b>	<b>Credits</b>	
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3
<b>ER, ERSE, and/or ED 3000/4000 level Contract courses [not ERDI, not ERSEDI, not EDDI]</b>		
TECO	Technology in the Discipline Connection	3
	Electives	<u>12</u>
		27
<b>Total</b>		<b>120</b>

#### EARLY CARE AND EDUCATION OPTION

The Early Care and Education Option provides specific preparation for caring for and teaching children from infancy through kindergarten and working with young children and families, non-public school settings. Students in this option will have extensive experiences working in a variety of early childhood settings and programs. These settings could include Head Start, early intervention, parent cooperative preschools, infant care, public-school-based preschools, private and/or non-profit child care and preschool programs, hospital-based programs, Montessori programs or other settings. Early Childhood Studies candidates with this Option are strongly encouraged to complete an academic minor.

<b>Degree Requirements</b>	<b>Credits</b>	
Courses required for the Option are shown in boldface.		
ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
<b>ER 3400</b>	<b>The Project Approach</b>	<b>6</b>
<b>ER 3550</b>	<b>Early Childhood Practicum</b>	<b>3</b>
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3

<b>ER 4300</b>	<b>Leadership, Advocacy, and Policy in Early Childhood (TECO)</b>	<b>3</b>
<b>ER 4600</b>	<b>Special Topics in Early Childhood</b>	<b>3</b>
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3
<b>ERSE 3600</b>	<b>Infant and Toddler Care and Education</b>	<b>4</b>
MA 2110	Mathematics in Our World I (MATH)	4
RL 2500	Language and Literacy Development in Young Children	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>31–29</u>
<b>Total</b>		<b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>	<b>Credits</b>	
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2110	Mathematics in Our World I (MATH)	4
ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	<u>6</u>
		31

<b>Year Two</b>	<b>Credits</b>	
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3
RL 2500	Language and Literacy Development in Young Children	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	<u>2–0</u>
		32

<b>Year Three</b>	<b>Credits</b>	
<b>ER 3400</b>	<b>The Project Approach</b>	<b>6</b>
<b>ER 3550</b>	<b>Early Childhood Practicum</b>	<b>3</b>
<b>ERSE 3600</b>	<b>Infant and Toddler Care and Education</b>	<b>4</b>
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
	Electives	<u>10</u>
		29



Year Four		Credits
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3
ER 4300	Leadership, Advocacy, and Policy in Early Childhood (TECO)	3
ER 4600	Special Topics in Early Childhood Electives	3 19 28
<b>Total</b>		<b>120</b>

#### TEACHER CERTIFICATION (K–3) OPTION

Early Childhood Studies majors who plan to teach in a public school primary grade classroom should select the Teacher Certification K–3 Option. In this option, courses focus more specifically on children in the age range from five to eight and on the primary classroom setting. The content and pedagogical knowledge needed to teach in the primary grades is introduced in the early childhood core courses and the general education courses and further developed in the teacher certification option courses. Early Childhood teacher candidates will develop a repertoire of teaching strategies to foster primary grade students' understanding of reading, writing, language arts, mathematics, science, social studies, technology, and the arts. The Teacher Certification K–3 Option provides extensive field experiences in area public schools, culminating in a full-time student teaching experience in the final semester.

This teacher education program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for N–3 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. Receiving states may have a difference in elementary grade range and may impose certain special requirements that must be met within a reasonable period of time. For further information, please see the Teacher Education and Clinical Experiences section. A minimum cumulative grade point average of 2.50 is required for admission into Teacher Education candidacy; candidates are required to have a 2.70 grade point average to student teach. All full-time or part-time matriculated candidates in this Option are expected to make satisfactory academic progress toward their academic goals.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
ER 3700	Teaching and Learning in the Primary Grades	3
ER 3800	Technology and Problem Solving Across the Primary Grade Curriculum (TECO)	3
ER 3900	Inquiry and Integration in the Primary Grades	3
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3
ER 4410	K–3 Student Teaching in an Inclusive Classroom	12
ER 4500	K–3 Student Teaching Seminar	3
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3

ERSE 3500	Special Education in the Primary Grades	3
CD 2540	Integrated Arts	3
MA 2110	Mathematics in Our World I (MATH)	4
MA 3010	Mathematics in Our World II (QRCO)	4
RL 2500	Language and Literacy Development in Young Children	3
RL 3500	Reading, Writing, and Language Arts in the Primary Grades	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>13–11</u>
<b>Total</b>		<b>120</b>

Acceptance into the Teacher Certification Option requires acceptance into teacher certification candidacy (which includes passing the Praxis I exam). Student Teaching requires a minimum cumulative grade point average of 2.70.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2110	Mathematics in Our World I (MATH)	4
ER 2000	Introduction to the Early Childhood Profession (WRCO)	3
ER 2200	The Constructivist Approach in Early Care and Education	3
ER 2300	Young Children's Learning and Development in Context	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		31
Year Two		Credits
ER 2800	Preschool and Kindergarten Curriculum and Instruction	6
ER 3200	Assessment in Early Childhood (QRCO)	3
ER 3300	Culturally Responsive Early Care and Education (DICO) (WRCO)	3
ERSE 2500	Supporting Young Children with Exceptional Learning Needs	3
RL 2500	Language and Literacy Development in Young Children	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
Elective		<u>2–0</u>
		32

Year Three		Credits
ER 3700	Teaching and Learning in the Primary Grades	3
ER 3800	Technology and Problem Solving Across the Primary Grade Curriculum (TECO)	3
CD 2540	Integrated Arts	3
MA 3010	Mathematics in Our World II (QRCO)	4
RL 3500	Reading, Writing, and Language Arts in the Primary Grades	3
GACO	Global Awareness Connection	3
WECO	Wellness Connection	3
	Electives	8
		30
Year Four		Credits
ER 3900	Inquiry and Integration in the Primary Grades	3
ER 4200	Senior Seminar: Perspectives on Early Childhood (INCO)	3
ER 4410	K-3 Student Teaching in an Inclusive Classroom	12
ER 4500	K-3 Student Teaching Seminar	3
ERSE 3500	Special Education in the Primary Grades	3
	Elective	3
		27
Total		120

## Department of English

**Department of English**, Ellen Reed House

*Chair:* Elizabeth A. Ahl

*Assistant Chair:* Paul W. Rogalus

*Professors:* Bonnie W. Epstein, Arthur M. Fried, Robert E. Garlitz, Meg J. Petersen

*Associate Professors:* Scott R. Coykendall, Robin DeRosa, Elliott G.

Gruner, Ann K. McClellan, Joseph Monninger

*Assistant Professors:* Megan L. Birch, Karolyn Kinane

*Skills Application Teacher:* Joseph Mealey

### ENGLISH, Bachelor of Arts

**120 credits**

Through focused study in literature, language, and writing, English majors at Plymouth State University develop the essential skills of critical thinking, cogent analysis, and effective communication. The major explores both canonical and non-canonical texts in British, American, and Global literatures, and introduces students to trends in literary history and to contemporary questions raised by theorists and literary critics. Our renowned writing curriculum helps students develop their own original voices in both imaginative and expository writing. This foundation prepares students well for a variety of life paths; based on their own personal and career interests, students ultimately focus their studies in one of the three Options: Literature and Film, Teacher Certification, and Writing. For students who would like to personalize their degree even further, a Contract Option exists that can be individually designed by any student in conjunction with her/his advisor.

### CONTRACT OPTION

This 15 credit Option is designed by the student and his/her advisor and must be approved by the Department Chair. The 15 credits of the Option must be 3000/4000 level English courses. The student must have 30 credits left to take at Plymouth to declare this Option.

### Degree Requirements

**Credits**

Courses required for the Option are shown in boldface.

EN 2500	Studies in English (WRCO)	3
EN 2700	Creative Writing	3
EN 3690	Critical Theory	3
<b>EN 3000/4000 level Contract courses [not ENDI]</b>		<b>15</b>
<b>EN English electives [not ENDI]</b>		<b>6</b>

Introductory Course—complete one of the following: 3

EN 1750	Popular Fiction
EN 2250	Identity and Difference in American Literature (DICO)
EN 2350	Decades in Literature
EN 2410	Shakespeare's (St)age
EN 2450	Prize Winners
EN 2610	Introduction to Film

Currents—complete four of the following, including one each of American, British, and Global: 12

EN 3500	Currents in Global Literature
EN 3610	Currents in British Literature I
EN 3620	Currents in British Literature II
EN 3710	Currents in American Literature I (DICO)
EN 3720	Currents in American Literature II (DICO)

**Technology in the Discipline Connection—complete one of the following:** 3

<b>EN 3090</b>	<b>Technical Communication (TECO)</b>
<b>EN 3670</b>	<b>Journalism (TECO)</b>

LL 2000 Introduction to Language and Linguistics (QRCO) 3

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6

PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>22–20</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
EN 2500	Studies in English (WRCO)	3

Years One and Two		Credits
Introductory Course—complete one course		3
EN 2700	Creative Writing	3
<b>EN English elective [not ENDI]</b>		3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		7–5

Years Three and Four		Credits
EN 3690	Critical Theory	3
Currents—complete four courses, including one each of American, British and Global		12
<b>EN 3000/4000 level Contract courses [not ENDI]</b>		15
<b>EN English elective [not ENDI]</b>		3
<b>TECO Technology in the Discipline Connection—complete one course</b>		3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		15
<b>Total</b>		<b>120</b>

#### LITERATURE AND FILM OPTION

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
EN 2500	Studies in English (WRCO)	3
EN 2700	Creative Writing	3
EN 3690	Critical Theory	3
<b>EN English elective [not ENDI]</b>		3
Introductory Course—complete one of the following:		3
EN 1750	Popular Fiction	
EN 2250	Identity and Difference in American Literature (DICO)	
EN 2350	Decades in Literature	
EN 2410	Shakespeare's (St)age	
EN 2450	Prize Winners	
EN 2610	Introduction to Film	

Currents—complete four of the following,		
including one each of American, British, and Global:		
EN 3500	Currents in Global Literature	
EN 3610	Currents in British Literature I	
EN 3620	Currents in British Literature II	
EN 3710	Currents in American Literature I (DICO)	
EN 3720	Currents in American Literature II (DICO)	

#### Advanced Studies in Literature and Film—complete five from the following:

EN 3260	Fiction into Film	
EN 3270	Gothic Fiction	
EN 3280	Drama into Film	
EN 3290	Postcolonial Literature	
EN 3300	The Craft of Screenwriting: Reading and Writing Screenplays	
EN 3350	Lost Generation[s]: Voices of American Counterculture Movements (INCO)	
EN 3450	Women Writers	
EN 3560	Genre	
EN 3590	The Filmmaker's Vision: An Introduction to Film Analysis	
EN 3680	Scriptwriting	
EN 3750	Topics in Literature and Film	
EN 4020	Chaucer: The Canterbury Tales	
EN 4600	Travels (INCO)	
EN 4800	Single Author	
EN 4910	Independent Study (literature or film)	

#### Advanced Study in Writing—complete one of the following:

EN 3030	Practicum in Publication	3
EN 3090	Technical Communication (TECO) (WRCO)	
EN 3100	Fiction Workshop	
EN 3120	Advanced Composition	
EN 3130	Non-Fiction Workshop	
EN 3140	Poetry Workshop	
EN 3670	Journalism (TECO) (WRCO)	
EN 3760	Topics in Writing	
EN 4030	Advanced Poetry Workshop	
EN 4090	Advanced Technical Communication	
EN 4130	Advanced Prose Workshop	
EN 4910	Independent Study (writing)	
EN 4950	Writing Internship	

#### Technology in the Discipline Connection—complete one of the following:

EN 3090	Technical Communication (TECO)	3
EN 3670	Journalism (TECO)	

LL 2000	Introduction to Language and Linguistics (QRCO)	3
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#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>22–20</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
EN 2500	Studies in English (WRCO)	3

Years One and Two		Credits
Introductory Course—complete one course		3
EN 2700	Creative Writing	3
EN English elective [not ENDI]		3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	8
	Electives	7–5

Years Three and Four		Credits
EN 3690	Critical Theory	3
Currents—complete four courses, including one each of American, British and Global		12
Advanced Studies in Literature and Film—complete five courses		15
Advanced Study in Writing—complete one course		3
TECO	Technology in the Discipline Connection—complete one course	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	15
<b>Total</b>		<b>120</b>

**TEACHER CERTIFICATION (5–12) OPTION**

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for 5–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section. A minimum cumulative grade point average of 2.70 is required to student teach.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
EN 2500	Studies in English (WRCO)	3
EN 2560	Introduction to English Teaching	3
EN 2700	Creative Writing	3
EN 3500	Currents in Global Literature	3
EN 3610	Currents in British Literature I	3
EN 3620	Currents in British Literature II	3
EN 3690	Critical Theory	3
EN 3710	Currents in American Literature I (DICO)	3
EN 3720	Currents in American Literature II (DICO)	3
EN 4310	Teaching Writing in the Secondary School	3
EN 4320	English Student Teaching Seminar	1
EN 4430	English Student Teaching 5–12	11
EN 4550	Teaching Literature in the Secondary School	3

Introductory Course—complete one of the following:		3
EN 1750	Popular Fiction	
EN 2250	Identity and Difference in American Literature (DICO)	
EN 2350	Decades in Literature	
EN 2410	Shakespeare's (St)age	
EN 2450	Prize Winners	
EN 2610	Introduction to Film	
Advanced Study in Writing—complete one of the following:		3
EN 3030	Practicum in Publication	
EN 3090	Technical Communication (TECO) (WRCO)	
EN 3100	Fiction Workshop	
EN 3120	Advanced Composition	
EN 3130	Non-Fiction Workshop	
EN 3140	Poetry Workshop	
EN 3670	Journalism (TECO) (WRCO)	
EN 3760	Topics in Writing	
EN 4030	Advanced Poetry Workshop	
EN 4090	Advanced Technical Communication	
EN 4130	Advanced Prose Workshop	
EN 4910	Independent Study (writing)	
EN 4950	Writing Internship	
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	8
	Electives	13–11
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

Student Teaching requires a minimum grade of C in EN 4310 and EN 4550 and a minimum cumulative grade point average of 2.70.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
EN 2500	Studies in English (WRCO)	3

Years One and Two		Credits
Introductory Course—complete one course		3
EN 2560	Introduction to English Teaching	3
EN 2700	Creative Writing	3

LL 2000	Introduction to Language and Linguistics (QRCO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	8
	Electives	7–5

**Years Three and Four**

		Credits
EN 3500	Currents in Global Literature	3
EN 3610	Currents in British Literature I	3
EN 3620	Currents in British Literature II	3
EN 3690	Critical Theory	3
EN 3710	Currents in American Literature I (DICO)	3
EN 3720	Currents in American Literature II (DICO)	3
EN 4310	Teaching Writing in the Secondary School	3
Advanced Study in Writing—complete one course		3
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)	3
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3
	Electives	6

**Year Four**

		Credits
EN 4320	English Student Teaching Seminar	I
EN 4430	English Student Teaching 5–12	II
EN 4550	Teaching Literature in the Secondary School	3
<b>Total</b>		<b>120</b>

**WRITING OPTION****Degree Requirements**

Courses required for the Option are shown in boldface.

		Credits
EN 2500	Studies in English (WRCO)	3
EN 2700	Creative Writing	3
EN 3690	Critical Theory	3
<b>EN English elective [not ENDI]</b>		<b>3</b>

Introductory Course—complete one of the following:

EN 1750	Popular Fiction	3
EN 2250	Identity and Difference in American Literature (DICO)	3
EN 2350	Decades in Literature	3
EN 2410	Shakespeare's (St)age	3
EN 2450	Prize Winners	3
EN 2610	Introduction to Film	3

Currents—complete four of the following, including one each of American, British, and Global:

EN 3500	Currents in Global Literature	3
EN 3610	Currents in British Literature I	3
EN 3620	Currents in British Literature II	3
EN 3710	Currents in American Literature I (DICO)	3
EN 3720	Currents in American Literature II (DICO)	3

**Advanced Studies in Writing—complete five of the following:**

EN 3030	Practicum in Publication	3
EN 3090	Technical Communication (TECO) (WRCO)	3
EN 3100	Fiction Workshop	3
EN 3120	Advanced Composition	3
EN 3130	Non-Fiction Workshop	3
EN 3140	Poetry Workshop	3
EN 3670	Journalism (TECO) (WRCO)	3
EN 3760	Topics in Writing	3
EN 4030	Advanced Poetry Workshop	3
EN 4090	Advanced Technical Communication	3
EN 4130	Advanced Prose Workshop	3
EN 4910	Independent Study (writing)	3

EN 4950	Writing Internship	3
<b>Advanced Study in Literature—complete one from the following:</b>		<b>3</b>
EN 3260	Fiction into Film	3
EN 3270	Gothic Fiction	3
EN 3280	Drama into Film	3
EN 3290	Postcolonial Literature	3
EN 3300	The Craft of Screenwriting: Reading and Writing Screenplays	3
EN 3350	Lost Generation[s]: Voices of American Counterculture Movements (INCO)	3
EN 3450	Women Writers	3
EN 3560	Genre	3
EN 3590	The Filmmaker's Vision: An Introduction to Film Analysis	3
EN 3680	Scriptwriting	3
EN 3750	Topics in Literature and Film	3
EN 4020	Chaucer: The Canterbury Tales	3
EN 4600	Travels (INCO)	3
EN 4800	Single Author	3
EN 4910	Independent Study (literature)	3
<b>Technology in the Discipline Connection—complete one of the following:</b>		<b>3</b>
EN 3090	Technical Communication (TECO)	3
EN 3670	Journalism (TECO)	3

LL 2000	Introduction to Language and Linguistics (QRCO)	3
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**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
<b>Electives</b>		<b>22–20</b>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
EN 2500	Studies in English (WRCO)	3

<b>Years One and Two</b>		<b>Credits</b>
Introductory Course—complete one course		3
EN 2700	Creative Writing	3
<b>EN English elective [not ENDI]</b>		<b>3</b>
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Foreign Language (GACO)	8
	Electives	7–5

Years Three and Four		Credits
EN 3690	Critical Theory	3
Currents—complete four courses, including one each of American, British and Global		12
Advanced Studies in Writing—complete five courses		15
Advanced Study in Literature—complete one course		3
Technology in the Discipline Connection—complete one course		3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	15
<b>Total</b>		<b>120</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

EXPOSITORY WRITING MINOR		15 credits
		Credits
EN 3030	Practicum in Publication	3
EN 3090	Technical Communication	3
EN 3120	Advanced Composition	3
EN 3130	Non-Fiction Workshop	3
EN 3670	Journalism	3

#### FILM STUDIES MINOR 15 credits

The Film Studies Minor offers students the opportunity to study the artistic, literary, critical, historical, and technical aspects of the motion picture.

		Credits
EN 2500	Studies in English	3
EN 2610	Introduction to Film	3
EN 3260	Fiction into Film	3
EN 3280	Drama into Film	3
EN 3590	The Filmmaker's Vision: An Introduction to Film Analysis	3

#### IMAGINATIVE WRITING MINOR 15 credits

		Credits
EN 2500	Studies in English	3
EN 2700	Creative Writing	3
Complete one of the following:		3
ENDI 1330	Arthurian Legends: Representations of Leadership, Romance, National Identity, and Spiritual Question (PPDI)	
EN 1750	Popular Fiction	
EN 2610	Introduction to Film	
Complete one of the following:		3
EN 3100	Fiction Workshop	
EN 3140	Poetry Workshop	
Complete one of the following:		3
EN 3030	Practicum in Publication	
EN 3090	Technical Communication	
EN 3120	Advanced Composition	
EN 3130	Non-Fiction Workshop	
EN 3670	Journalism	
EN 3680	Scriptwriting	
EN 3760	Topics in Writing	
EN 4030	Advanced Poetry Workshop	
EN 4910	Independent Study (writing)	
EN 4950	Writing Internship	

LITERATURE MINOR		15 credits
		Credits
EN 2500	Studies in English	3
Complete one of the following:		3
ENDI 1330	Arthurian Legends: Representations of Leadership, Romance, National Identity, and Spiritual Question (PPDI)	
EN 1750	Popular Fiction	
EN 2610	Introduction to Film	
Complete three of the following:		9
EN 3260	Fiction into Film	
EN 3270	Gothic Fiction	
EN 3280	Drama into Film	
EN 3290	Postcolonial Literature	
EN 3450	Women Writers	
EN 3500	Currents in Global Literature	
EN 3560	Genre	
EN 3610	Currents in British Literature I	
EN 3620	Currents in British Literature II	
EN 3710	Currents in American Literature I (DICO)	
EN 3720	Currents in American Literature II (DICO)	
EN 3750	Topics in Literature and Film	
EN 4020	Chaucer: The Canterbury Tales	
EN 4600	Travels (INCO)	
EN 4800	Single Author	



## Department of Environmental Science and Policy

Department of Environmental Science and Policy, Boyd Science Center

Chair: Warren C. Tomkiewicz

Professors: Patrick Bourgeron, Bryon D. Middlekauff, Mark P. Turski

Associate Professor of Science Education: Mary Ann McGarry

Research Assistant Professors: Lisa A. Doner, Thaddeus C. Guldbrandsen

Director of the Center for the Environment: Patrick Bourgeron

Assistant Director of the Center for the Environment: Brian W. Eisenhauer

### ENVIRONMENTAL SCIENCE

#### AND POLICY, Bachelor of Science

120 credits

The BS in Environmental Science and Policy program prepares students for careers in government and non-government organizations, consulting firms, and further studies at the graduate level. There are two options within the program, a community and environmental focus and an environmental science focus. Both options develop an understanding of the science of environmental issues and the application of policy to social and cultural interests of industry and communities. The program functions in collaboration with the Center for the Environment and encourages student research. Students have the opportunity to design a program that will address both their environmental and policy interests.

### COMMUNITY AND ENVIRONMENT OPTION

A minimum of 30 credits in the major must be completed at the 3000/4000 level.

#### Degree Requirements

#### Credits

Courses required for the Option are shown in boldface.

ESP 2100	Introduction to Environmental Science and Policy	4
ESP 4530	Environmental Science and Policy Seminar	4
AN 2210	<b>Cultural Anthropology (GACO)</b>	3
BI 1120	Biological Science II	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
GE 2001	Physical Geography	3
GE 2090	Computer Mapping (TECO)	3
GE 3270	Introduction to Geographic Information Systems	3
PO 1020	<b>American Government</b>	3
SO 2220	Foundations of Sociology (DICO)	3
SO 3390	Environment and Society (INCO)	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	
Group A—complete five courses from the following*:		15
AN 3110	<b>Cultural Ecology</b>	
BU 3220	<b>Business and the Environment</b>	
EPL 3100	<b>Environmental Planning</b>	
GE 4270	<b>Advanced Geographic Information Systems</b>	
GE 4280	<b>Geographic Information Systems Applications: Computer Mapping</b>	
IS 3480	<b>Perspectives on Wilderness (DICO) (INCO)</b>	
PO 3680	<b>Public Policy Analysis (WRCO)</b>	
AN 4410	<b>Methods of Social Research or</b>	
SO 4410	<b>Methods of Social Research</b>	
Group B—complete two courses from the following*:		6–8
BI 2070	<b>Botany</b>	
BI 3260	<b>Freshwater Ecology</b>	
BI 4050	<b>Ecology (QRCO) (WRCO)</b>	
GE 3300	<b>Introduction to Hydrology</b>	
GE 4150	<b>Topics in Geography</b>	
MT 2110	<b>Introduction to Meteorology and</b>	
MT 2230	<b>Introduction to Meteorological Analysis</b>	

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
Electives		30–28
<b>Total</b>		<b>120</b>

\* The Writing in the Discipline Connection (WRCO) must be completed in either Group A or Group B of the Option.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
ESP 2100	Introduction to Environmental Science and Policy	4
BI 1120	Biological Science II	4
GE 2001	Physical Geography	3
GE 2090	Computer Mapping (TECO)	3
SO 2220	Foundations of Sociology (DICO)	3
CTDI	Creative Thought Directions	6
		32
Year Two		Credits
AN 2210	<b>Cultural Anthropology (GACO)</b>	3
PO 1020	<b>American Government</b>	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
WECO	Wellness Connection	3
	Elective	5
		29
Year Three		Credits
BI 3240	Conservation (DICO) (GACO) (INCO)	3
GE 3270	Introduction to Geographic Information Systems	3
SO 3390	Environment and Society (INCO)	3
Group B—complete two courses*		6–8
	Electives	15–13
		30
Year Four		Credits
ESP 4530	Environmental Science and Policy Seminar	4
Group A—complete five courses*		15
	Electives	10
		29
<b>Total</b>		<b>120</b>

\* The Writing in the Discipline Connection (WRCO) must be completed in either Group A or Group B of the Option.

**ENVIRONMENTAL SCIENCE OPTION**

A minimum of 36 credits in the major must be completed at the 3000/4000 level.

**Degree Requirements****Credits**

Courses required for the Option are shown in boldface.

ESP 2100	Introduction to Environmental Science and Policy	4
ESP 4530	Environmental Science and Policy Seminar	4
BI 1120	Biological Science II	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
CH 2130	<b>General Chemistry I (QRCO) (TECO)</b>	3
CH 2140	<b>General Chemistry II</b>	3
CH 2230	<b>General Chemistry Laboratory I</b>	1
CH 2240	<b>General Chemistry Laboratory II</b>	1
GE 2001	Physical Geography	3
GE 2090	Computer Mapping (TECO)	3
GE 3270	Introduction to Geographic Information Systems	3
GE 3300	<b>Introduction to Hydrology</b>	3
MT 2110	<b>Introduction to Meteorology</b>	3
MT 2230	<b>Introduction to Meteorological Analysis</b>	1
PH 2130	Physics I	4
SO 2220	Foundations of Sociology (DICO)	3
SO 3390	Environment and Society (INCO)	3
<b>Group A—complete three courses from the following*:</b>		<b>9–12</b>
BI 3260	Freshwater Ecology	
BI 4050	Ecology (QRCO) (WRCO)	
CH 3420	Environmental Chemistry	
ESP 3300	Soils and Environmental Change	
ESP 4100	Applied Hydrogeology	
GE 4150	Topics in Geography	
MT 4110	Air Quality	
MT 4430	Climate Change	
<b>Group B—complete two courses from the following*:</b>		<b>6</b>
AN 2210	Cultural Anthropology (GACO)	
BU 3220	Business and the Environment	
EPL 3100	Environmental Planning	
ESP 3500	Geo-cultural Education on the Colorado Plateau (DICO)	
PO 1020	American Government	
PO 3680	Public Policy Analysis (WRCO)	
SS 4994	Community Research Experience	
AN 4410	Methods of Social Research <i>or</i>	
SO 4410	Methods of Social Research	
<b>Mathematics Foundations—complete one of the following:</b>		<b>4</b>
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		<b>3</b>
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	
<b>General Education:</b>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<b>Electives</b>		<b>22–19</b>
<b>Total</b>		<b>120</b>

\* The Writing in the Discipline Connection (WRCO) must be completed in either Group A or Group B of the Option.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

**Year One****Credits**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
<b>Mathematics Foundations—complete one course</b>		<b>4</b>
ESP 2100	Introduction to Environmental Science and Policy	4
BI 1120	Biological Science II	4
GE 2001	Physical Geography	3
GE 2090	Computer Mapping (TECO)	3
SO 2220	Foundations of Sociology (DICO)	3
CTDI	Creative Thought Direction	3
		<b>30</b>

**Year Two****Credits**

CH 2130	<b>General Chemistry I (QRCO) (TECO)</b>	3
CH 2140	<b>General Chemistry II</b>	3
CH 2230	<b>General Chemistry Laboratory I</b>	1
CH 2240	<b>General Chemistry Laboratory II</b>	1
MT 2110	<b>Introduction to Meteorology</b>	3
MT 2230	<b>Introduction to Meteorological Analysis</b>	1
CTDI	Creative Thought Direction	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
		<b>30</b>

**Year Three****Credits**

BI 3240	Conservation (DICO) (GACO) (INCO)	3
GE 3270	Introduction to Geographic Information Systems	3
PH 2130	Physics I	4
SO 3390	Environment and Society (INCO)	3
<b>Group B—complete two courses*:</b>		<b>6</b>
Electives		<b>11</b>
		<b>30</b>

**Year Four****Credits**

ESP 4530	Environmental Science and Policy Seminar	4
GE 3300	<b>Introduction to Hydrology</b>	3
<b>Group A—complete three courses*:</b>		<b>9–12</b>
WECO	Wellness Connection	3
Electives		<b>11–8</b>
		<b>30</b>
<b>Total</b>		<b>120</b>

\* The Writing in the Discipline Connection (WRCO) must be completed in either Group A or Group B of the Option.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

**EARTH SCIENCE MINOR****20–23 credits**

Available to all students. Student must fulfill each of the lower division areas and the upper division requirement as specified.

		<b>Credits</b>
(ES 2100 and ES 2110) or (ESDI 2120 and ESDI 2130)		4
ES 2100	Physical Geology	
ES 2110	Physical Geology Laboratory	
ESDI 2120	Historical Geology (SIDI)	
ESDI 2130	Historical Geology Laboratory (SIDI)	
ESDI 2140	Introduction to Oceanography (SIDI)	3
ESDI 2150	Oceanography Laboratory (SIDI)	1
MT 2110	Introduction to Meteorology	3

MT 2230	Introduction to Meteorological Analysis	1
PHDI 2300	Astronomy (SIDI)	3
Complete two courses from the following:		6–8
CH 3420	Environmental Chemistry	
ES any 3000/4000 level	Earth Science course	
GE 3300	Introduction to Hydrology	
GE 3310	Landform Analysis	
GE 3350	Introduction to Airphoto Interpretation and Remote Sensing	
NSDI 2500	Environmental Science (SIDI)	
NS 4200	Geographic Information Systems and Remote Sensing in the Sciences (INCO)	

## Department of Health and Human Performance

**Department of Health and Human Performance**, Draper and Maynard Building

*Chair:* Linda S. Levy

*Assistant Chair:* Irene M. Cucina

*Professors:* Margaret E. Burckes-Miller, Louise S. McCormack

*Associate Professors:* Christian Bisson, Lynn V. Johnson,

Marjorie A. King, Barbara J. McCahan, John M. Rosene

*Instructor:* Liesl M. Lindley

*Contract Faculty:* James G. Hannon

### ADVENTURE EDUCATION, Bachelor of Science 120 credits

Adventure Education teaches students how to use human powered outdoor pursuits to expose people to purposeful challenge, high adventure, and new growth opportunities. Students majoring in Adventure Education engage in outdoor activities such as backpacking, rock climbing, canoeing, ropes courses, and mountaineering to systematically learn three broad sets of skills. First, they learn the professional and technical skills to operate competently and safely in demanding outdoor environments. Second, they learn how to instruct others in these adventure pursuits. And third, they learn how to develop and frame adventure experiences so that their future clients and students grow personally and professionally.

Students have the option of taking a 15-credit package of Adventure Education courses in a fall Immersion Semester, which involves wilderness and mountain backpacking trips lasting four to 15 days. They can also spend a spring semester in the outdoor education program at LaTrobe University in Bendigo, Australia. Adventure Education students also take a variety of courses that cover adventure philosophy, history, leadership, processing and facilitation, experiential pedagogy, ethical issues, and program administration.

Many of the field-based courses require additional cost for transportation, food, permits, supplies or equipment rental. To meet these expenses, most field-based courses have fees attached to them. Students can expect to pay between \$1,500 and \$2,500 in additional course fees to complete the Adventure Education major. The range in cost depends on what optional courses students choose to take throughout their studies in Adventure Education. In addition, students are expected to provide basic personal outdoor clothing and equipment. The program will provide group, technical, technological, and safety gear but we will not be able to outfit students with outdoor clothing, boots, backpacks, sleeping bags, etc.

Students majoring in Adventure Education are preparing for future careers in field-based leadership, instruction, and administrative positions with nonprofit and commercial outdoor education, therapeutic adventure, environmental, and recreation programs. Because field-based courses may occur on weekends, over Spring break and in May after classes end, the schedule for Adventure Education students will need to be carefully planned and may disallow participation in an athletic team and/or affect their availability for working during some semesters. Additionally, students will be required to complete a minimum of 60 days of documented adventure leadership or instruction prior to their internship (AP 4880) or 30 days prior to their Clinical (AP 3980). This leadership/instruction experience must occur after the student's formal matriculation into the Adventure Education program. Some of this experience will be gained through Adventure Education course work, while some will be accrued through summer jobs in camps or outdoor programs.

Degree Requirements		Credits
AP 2010	Foundations of Adventure Education	3
AP 2210	Adventure Education Teaching Theories and Methods	3
AP 2300	Top Rope Rock Climbing	3
AP 2400	Paddling Fundamentals	3
AP 3500	Adventure Processing and Facilitation	3
AP 3600	Outdoor Skills Clinical	3
AP 4300	Teaching Assistantship in Adventure Education	4
AP 4600	Organization and Administration of Adventure Education	3
Complete Group A or Group B:		15
Group A:	AP 3100 Wilderness Expedition (TECO)	
	AP 3300 Adventure Leadership and Group Management	
	AP 3320 Adventure Education Philosophy and Theory (WRCO)	
	AP 3400 Wilderness First Responder	
Group B:	AP 3101 Immersion Wilderness Expedition (TECO)	
	AP 3301 Immersion Adventure Leadership and Group Management	
	AP 3321 Immersion Adventure Education Philosophy and Theory (WRCO)	
	AP 3401 Immersion Wilderness First Responder	
Adventure Education Activities—complete two of the following:		6
AP 3110	Challenge Course Fundamentals	
AP 3310	Lead Rock Climbing	
AP 3410	Whitewater Paddling	
AP 3700	Winter Backcountry Travel	
AP 3810	Alpine Mountaineering	
AP 3950	Special Topics in Adventure Education	
Adventure Education Capstone—complete (C) or (D):		6
(C)	AP 4880 Adventure Education Internship or	
(D)	AP 3880 Adventure Education Practicum and	
	AP 3890 Adventure Education Clinical	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 1900	Statistical Literacy in Today's Society (QRCO)	
MA 2300	Statistics I (QRCO)	
PE 3560	Measurement and Assessment in Physical Education (QRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		<u>20–18</u> 120

The Immersion courses (Group B) are offered fall semesters only. AP 3880 requires a minimum cumulative grade point average of 2.00. AP 4880 requires a minimum grade of C in AP 4300.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AP 2010	Foundations of Adventure Education	3
AP 2210	Adventure Education Teaching Theories and Methods	3
AP 2300	Top Rope Rock Climbing	3
AP 2400	Paddling Fundamentals	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
		30

Year Two		Credits
Group A or Group B Adventure Education courses (TECO) (WRCO)		15
AP 3500	Adventure Processing and Facilitation	3
AP 3600	Outdoor Skills Clinical	3
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
		30

Year Three		Credits
Adventure Education Activities—complete two courses		6
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
GACO	Global Awareness Connection	3
Electives		5–3

Years Three and Four		Credits
AP 4300	Teaching Assistantship in Adventure Education	4
AP 4600	Organization and Administration of Adventure Education	3
WECO	Wellness Connection	3

Year Four		Credits
Adventure Education Capstone—complete (C) or (D)		6
DICO	Diversity Connection	3
INCO	Integration Connection	3
Electives		15

**Total** **120**

### ATHLETIC TRAINING, Bachelor of Science 122 credits

The Athletic Training program is designed to provide students interested in the field of Athletic Training the opportunity to develop the necessary skills and knowledge through classroom experiences and clinical rotations to meet the competencies set forth by the National Athletic Trainers' Association Education Council. A four semester clinical experience is required as part of this program. Students successfully completing this program will be eligible to sit for the BOC certification exam. The Athletic Training program has been granted accreditation by the Commission on Accreditation of Athletic Training Education Programs (CAATE).

Athletic Training students must meet the following requirements to enroll in AT 2750 Athletic Training Clinical I:

- minimum 2.33 overall grade point average
- minimum 2.33 grade point average in
  - AT 1010 Introduction to Athletic Training I
  - AT 1020 Introduction to Athletic Training II
  - AT 2100 Introduction to Clinical Practice
  - AT 2250 Prevention and Care of Injuries in Active Populations

- AT 3250 Injury Assessment I
- AT 3260 Injury Assessment Laboratory I
- HE 2500 First Aid and CPR/AED
- BI 2110 Human Anatomy and Physiology I
- BI 2120 Human Anatomy and Physiology II
- PE 3570 Kinesiology
- successful completion of 80 observation hours (at PSU)
- verification that students can comply with the program's Technical Standards.

Application procedures and Technical Standards are available to all interested students and can be obtained by contacting the Department of Health and Human Performance.

The clinical component of the Athletic Training major requires all students to complete four successive clinical rotations (minimum of 200 hours each). Clinical assignments are completed over no fewer than four academic semesters and include one full year of continual clinical assignment. To fulfill this requirement, students should anticipate remaining clinically active during the Winterim of their junior year. Athletic Training students who participate on a fall or spring athletic team should anticipate spending a minimum of two winter terms in the clinic. Students who participate on a winter athletic team may require one additional semester to complete their clinical requirement. Clinical assignment schedules for athletes pursuing a degree in Athletic Training are decided on a case-by-case basis by the Director of Clinical Instruction pending acceptance into the major. Students should expect to complete approximately 20 clinical hours per week. Personal travel to off-campus clinical sites may be required.

Degree Requirements	Credits
AT 1010 Introduction to Athletic Training I	1.0
AT 1020 Introduction to Athletic Training II	1.0
AT 2010 Athletic Training Skills I	1.0
AT 2020 Athletic Training Skills II	1.0
AT 2100 Introduction to Clinical Practice	2.0
AT 2250 Prevention and Care of Injuries in Active Populations	3.0
AT 2750 Clinical Athletic Training I	4.0
AT 3010 Clinical Integration I	1.0
AT 3020 Clinical Integration II	1.0
AT 3250 Injury Assessment I	3.0
AT 3260 Injury Assessment Laboratory I	1.0
AT 3270 Injury Assessment II	3.0
AT 3280 Injury Assessment Laboratory II	1.0
AT 3300 Illness and Disease (WRCO)	3.0
AT 3400 Pharmacology for Allied Health Professionals	2.0
AT 3760 Clinical Athletic Training II	4.0
AT 4010 Seminar in Athletic Training I	1.0
AT 4020 Seminar in Athletic Training II	1.0
AT 4100 Administration of Athletic Training (INCO)	3.0
AT 4250 Rehabilitation of Injuries for Active Populations	3.0
AT 4260 Rehabilitation of Injuries for Active Populations Laboratory	1.0
AT 4500 Therapeutic Modalities (TECO)	3.0
AT 4510 Therapeutic Modalities Laboratory	1.0
AT 4760 Clinical Athletic Training III	4.0
AT 4800 Clinical Athletic Training IV	4.0
BI 2110 Human Anatomy and Physiology I	4.0
BI 2120 Human Anatomy and Physiology II	4.0
HE 2500 First Aid and CPR/AED	1.5
PE 2850 Wellness Choices for a Healthy, Active Lifestyle (WECO)	3.0
PE 3560 Measurement and Assessment in Physical Education (QRCO)	3.0
PE 3570 Kinesiology	3.0
PE 3580 Physiology of Exercise	3.0

PE 4780 Exercise Prescription	3.0
<i>General Education:</i>	
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA Mathematics Foundations	3.0
CTDI Creative Thought Directions	6.0
PPDI Past and Present Directions	6.0
SSDI Self and Society Directions	6.0
DICO Diversity Connection	3.0
GACO Global Awareness Connection	3.0
<i>Electives</i>	<u>11.5</u>
	122.0

AT 3760 requires a minimum cumulative grade point average of 2.50.

AT 4760 requires a minimum cumulative grade point average of 2.70.

AT 4800 requires a minimum cumulative grade point average of 2.75.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One	Credits
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA Mathematics Foundations	3.0
AT 1010 Introduction to Athletic Training I	1.0
AT 1020 Introduction to Athletic Training II	1.0
AT 2250 Prevention and Care of Injuries in Active Populations	3.0
BI 2110 Human Anatomy and Physiology I	4.0
BI 2120 Human Anatomy and Physiology II	4.0
HE 2500 First Aid and CPR/AED	1.5
PPDI Past and Present Directions	6.0
Elective	<u>1.5</u>
	31.0
Year Two	Credits
AT 2010 Athletic Training Skills I	1.0
AT 2020 Athletic Training Skills II	1.0
AT 2100 Introduction to Clinical Practice	2.0
AT 2750 Clinical Athletic Training I	4.0
AT 3250 Injury Assessment I	3.0
AT 3260 Injury Assessment Laboratory I	1.0
AT 3270 Injury Assessment II	3.0
AT 3280 Injury Assessment Laboratory II	1.0
PE 2850 Wellness Choices for a Healthy, Active Lifestyle (WECO)	3.0
PE 3570 Kinesiology	3.0
PE 3580 Physiology of Exercise	3.0
CTDI Creative Thought Directions	<u>6.0</u>
	31.0
Year Three	Credits
AT 3010 Clinical Integration I	1.0
AT 3020 Clinical Integration II	1.0
AT 3400 Pharmacology for Allied Health Professionals	2.0
AT 3760 Clinical Athletic Training II	4.0
AT 4100 Administration of Athletic Training (INCO)	3.0
AT 4250 Rehabilitation of Injuries for Active Populations	3.0
AT 4260 Rehabilitation of Injuries for Active Populations Laboratory	1.0
AT 4500 Therapeutic Modalities (TECO)	3.0
AT 4510 Therapeutic Modalities Laboratory	1.0
AT 4760 Clinical Athletic Training III	4.0



PE 3560	Measurement and Assessment in Physical Education (QRCO)	3.0
SSDI	Self and Society Directions	6.0
		32.0
<b>Year Four</b>	<b>Credits</b>	
AT 3300	Illness and Disease (WRCO)	3.0
AT 4010	Seminar in Athletic Training I	1.0
AT 4020	Seminar in Athletic Training II	1.0
AT 4800	Clinical Athletic Training IV	4.0
PE 4780	Exercise Prescription	3.0
DICO	Diversity Connection	3.0
GACO	Global Awareness Connection	3.0
	Electives	10.0
		28.0
<b>Total</b>		<b>122.0</b>

#### HEALTH EDUCATION, Bachelor of Science 120 credits

The Health Education program is designed to prepare well-qualified health educators. The coursework is organized to develop a functional understanding of human behavior, theories of behavior change, and the fundamentals of the educational process. Additionally, students develop professional skills needed for planning, organizing, and implementing the delivery of information in the 10 professional content areas of health education. These areas are community health, personal health, family life, growth and development, nutrition, prevention and control of disease and disorders, safety and accident prevention, environmental health, consumer health, and substance use and abuse. Students may additionally apply for one of two options: Health Promotion, which prepares students for occupations in the public or private sectors, or School Health, which prepares students for certification as teachers. Choosing an option is not required to fulfill requirements. Students may complete the Health Education major without specializing in a particular option and may design a specialty for potential careers in the health professions, i.e., nursing, dietetics, physical therapy, occupational therapy, medicine, naturopathic medicine, massage therapy or in the fitness industry. Graduates are prepared to take a national certification exam to become a certified health education specialist (CHES). Health Education graduates will find careers with community agencies, hospitals, worksites, campus and community wellness centers, and public health programs. Careers in K–12 public schools require completion of the School Health option.

Degree Requirements		Credits
HE 1970	Introduction to Health Promotion	3.0
HE 2500	First Aid and CPR/AED	1.5
HE 2900	Disease, Safety, and Environment (WECO)	3.0
HE 3200	Stress Management (WECO)	3.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0
HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0
HE 4530	Senior Seminar in Health Promotion	1.0
PE 3260	Health Fitness Assessment and Programming	3.0
Group A—complete one of the following:		3.0
PS 2010	Introduction to General Psychology	
PS 2050	Life-Span Developmental Psychology	
<i>General Education:</i>		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SIDI	Scientific Inquiry Direction	6–8.0

SSDI	Self and Society Directions	6.0
DICO	Diversity Connection	3.0
GACO	Global Awareness Connection	3.0
INCO	Integration Connection	3.0
<i>Electives</i>		47.5–45.5
<b>Total</b>		<b>120.0</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
HE 1970	Introduction to Health Promotion	3.0
HE 2900	Disease, Safety, and Environment (WECO)	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
GACO	Global Awareness Connection	3.0
		30.0

Year Two		Credits
HE 2500	First Aid and CPR/AED	1.5
HE 3200	Stress Management (WECO)	3.0
Group A—complete one course		3.0
SIDI	Scientific Inquiry Direction	6–8.0
SSDI	Self and Society Directions	6.0
	Electives	10.5–8.5
		30.0

Year Three		Credits
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0
HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0
PE 3260	Health Fitness Assessment and Programming	3.0
DICO	Diversity Connection	3.0
	Electives	11.0
		30.0

Year Four		Credits
HE 4530	Senior Seminar in Health Promotion	1.0
INCO	Integration Connection	3.0
	Electives	26.0
		30.0
<b>Total</b>		<b>120.0</b>

#### HEALTH PROMOTION OPTION

Bachelor's level health educators with this Option develop specialized skills for leadership roles in health promotion in a variety of settings: hospitals, managed care organizations, insurance companies, and volunteer agencies, as well as in public and private worksites. Students complete a capstone of 6–12 credits.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
HE 1970	Introduction to Health Promotion	3.0
HE 2500	First Aid and CPR/AED	1.5
HE 2900	Disease, Safety, and Environment (WECO)	3.0
HE 3200	Stress Management (WECO)	3.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0



HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0
<b>HE 4030</b>	<b>Community Health Promotion</b>	<b>3.0</b>
<b>HE 4440</b>	<b>Health Promotion Internship</b>	<b>6–12.0</b>
HE 4530	Senior Seminar in Health Promotion	1.0
<b>HE 4620</b>	<b>Health Promotion Clinical</b>	<b>1.0</b>
BU 2290	Organizational Communications (WRCO)	3.0
BU 2450	Principles of Marketing	3.0
CM 2910	Introduction to Communication	3.0
PE 3260	Health Fitness Assessment and Programming	3.0
Group A—complete one of the following:		3.0
PS 2010	Introduction to General Psychology	
PS 2050	Life-Span Developmental Psychology	
<i>General Education:</i>		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SIDI	Scientific Inquiry Direction	6–8.0
SSDI	Self and Society Directions	6.0
DICO	Diversity Connection	3.0
GACO	Global Awareness Connection	3.0
INCO	Integration Connection	3.0
<i>Electives</i>		<u>28.5–20.5</u>
<b>Total</b>		<b>120.0</b>

HE 4440 requires a minimum grade point average of 2.70 (cumulative and major). HE 4620 requires a minimum cumulative grade point average of 2.60.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
HE 1970	Introduction to Health Promotion	3.0
HE 2900	Disease, Safety, and Environment (WECO)	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
GACO	Global Awareness Connection	<u>3.0</u>
		30.0
<b>Year Two</b>		<b>Credits</b>
HE 3200	Stress Management (WECO)	3.0
BU 2290	Organizational Communications (WRCO)	3.0
BU 2450	Principles of Marketing	3.0
Group A—complete one course		3.0
SIDI	Scientific Inquiry Direction	6–8.0
SSDI	Self and Society Directions	6.0
	Electives	<u>6–4.0</u>
		30.0
<b>Year Three</b>		<b>Credits</b>
HE 2500	First Aid and CPR/AED	1.5
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0
HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0

<b>HE 4620</b>	<b>Health Promotion Clinical</b>	<b>1.0</b>
<b>CM 2910</b>	<b>Introduction to Communication</b>	<b>3.0</b>
PE 3260	Health Fitness Assessment and Programming	3.0
DICO	Diversity Connection	3.0
	Electives	<u>8.5</u>
		30.0
<b>Year Four</b>		<b>Credits</b>
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
<b>HE 4030</b>	<b>Community Health Promotion</b>	<b>3.0</b>
<b>HE 4440</b>	<b>Health Promotion Internship</b>	<b>6–12.0</b>
HE 4530	Senior Seminar in Health Promotion	1.0
INCO	Integration Connection	3.0
	Electives	<u>14–8.0</u>
		30.0
<b>Total</b>		<b>120.0</b>

### SCHOOL HEALTH (K–12) OPTION

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for K–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section. Students have a short teaching experience their junior year and complete a student teaching experience in the elementary/middle school and high school level their senior year.

Admittance into the School Health Option is based on the following criteria:

- minimum 42 credits earned
- minimum cumulative grade point average of 2.50
- minimum 2.50 grade point average in:
  - HE 1970 Introduction to Health Promotion
  - PE 2415 Introduction to Physical Education and Health Instruction
- passing Praxis I
- up-to-date electronic folio
- meeting with the Coordinator of Teacher Education for Health Education and Physical Education

<b>Degree Requirements</b>		<b>Credits</b>
Courses required for the Option are shown in boldface.		
HE 1970	Introduction to Health Promotion	3.0
HE 2500	First Aid and CPR/AED	1.5
HE 2900	Disease, Safety, and Environment (WECO)	3.0
HE 3200	Stress Management (WECO)	3.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0
<b>HE 3660</b>	<b>CPR and First Aid Instructor</b>	<b>1.5</b>
<b>HE 3700</b>	<b>Drug Behavior (WECO)</b>	<b>3.0</b>
<b>HE 3710</b>	<b>Sex and Family Living Education</b>	<b>3.0</b>
HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0
HE 4530	Senior Seminar in Health Promotion	1.0
<b>HE 4640</b>	<b>School Health Clinical</b>	<b>1.0</b>
<b>HE 4950</b>	<b>Student Teaching K–12: Elementary Component</b>	<b>6.0</b>
<b>HE 4960</b>	<b>Student Teaching K–12: Secondary Component</b>	<b>6.0</b>
<b>IS 4360</b>	<b>Cultural Diversity and American Society (DICO) (INCO)</b>	<b>3.0</b>

<b>PE 2415</b>	<b>Introduction to Physical Education and Health Instruction</b>	<b>3.0</b>
PE 3260	Health Fitness Assessment and Programming	3.0
<b>PE 3310</b>	<b>Curriculum Design and Implementation</b>	<b>3.0</b>
<b>SE 3090</b>	<b>Introduction to Special Education: Middle and Secondary</b>	<b>3.0</b>
Group A—complete one of the following:		3.0
PS 2010	Introduction to General Psychology	
PS 2050	Life-Span Developmental Psychology	
<i>General Education:</i>		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SIDI	Scientific Inquiry Direction	6–8.0
SSDI	Self and Society Directions	6.0
GACO	Global Awareness Connection	3.0
<i>Electives</i>		<u>21–19.0</u>
<b>Total</b>		<b>120.0</b>

Several required courses for this Option have prerequisites. HE 4640 requires a minimum cumulative grade point average of 2.60. HE 4950 and HE 4960 require a minimum grade of C in HE 4640 and a minimum cumulative grade point average of 2.70.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
HE 1970	Introduction to Health Promotion	3.0
HE 2900	Disease, Safety, and Environment (WECO)	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
GACO	Global Awareness Connection	<u>3.0</u>
		30.0
<b>Year Two</b>		<b>Credits</b>
HE 3200	Stress Management (WECO)	3.0
<b>HE 3700</b>	<b>Drug Behavior (WECO)</b>	<b>3.0</b>
<b>PE 2415</b>	<b>Introduction to Physical Education and Health Instruction</b>	<b>3.0</b>
Group A—complete one course		3.0
SIDI	Scientific Inquiry Direction	6–8.0
SSDI	Self and Society Directions	6.0
	Elective	<u>6–4.0</u>
		30.0
<b>Year Three</b>		<b>Credits</b>
HE 2500	First Aid and CPR/AED	1.5
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	3.0
<b>HE 3660</b>	<b>CPR and First Aid Instructor</b>	<b>1.5</b>
<b>HE 3710</b>	<b>Sex and Family Living Education</b>	<b>3.0</b>
HE 3750	Wellness Skills for Health Professionals (WRCO)	3.0
HE 3760	Planning and Implementing Health Promotion Programs	4.0
<b>HE 4640</b>	<b>School Health Clinical</b>	<b>1.0</b>

<b>SE 3090</b>	<b>Introduction to Special Education: Middle and Secondary</b>	<b>3.0</b>
	Electives	<u>8.0</u>
		31.0
<b>Year Four</b>		<b>Credits</b>
HE 4530	Senior Seminar in Health Promotion	1.0
<b>HE 4950</b>	<b>Student Teaching K-12: Elementary Component</b>	<b>6.0</b>
<b>HE 4960</b>	<b>Student Teaching K-12: Secondary Component</b>	<b>6.0</b>
<b>IS 4360</b>	<b>Cultural Diversity and American Society (DICO) (INCO)</b>	<b>3.0</b>
PE 3260	Health Fitness Assessment and Programming	3.0
<b>PE 3310</b>	<b>Curriculum Design and Implementation</b>	<b>3.0</b>
	Electives	<u>7.0</u>
		29.0
<b>Total</b>		<b>120.0</b>

#### PHYSICAL EDUCATION, Bachelor of Science 122 credits

The Bachelor of Science degree in Physical Education offers students four professional focus areas: Applied Health Fitness, Sport Physiology, Physical Education Teacher Certification or Physical Education/Health Education Teacher Certification. The core courses of the Physical Education major provide the biological, psychological, philosophical, historic, and social/behavioral science principles in the study of physical activity, exercise, and sport. The impact of physical activity/inactivity on the health, fitness, and quality of life of people of all ages and abilities is also addressed. Students complete the core coursework and select one or more of the options to complete their studies through advanced courses. Each option is organized to reflect the current scholarship and practices in the field and allows students to develop knowledge, skills, attitudes, and a philosophical understanding specific to their future role as a practitioner in the field of Physical Education.

#### Physical Education Professional Activity Courses

These courses are letter graded and are for the majors and minors in the Department of Health and Human Performance only.

PE 2200	Lifeguard Training
PE 2280	Water Safety Instruction
PE 2422	Rhythm and Dance Fundamentals
PE 2423	Fundamentals in Gymnastics
PE 2424	Net and Wall Activities
PE 2425	Lifetime/Leisure Activities
PE 2426	Striking and Fielding Activities
PE 2427	Territorial Activities
PE 2428	Flexibility, Core, and Balance Training
PE 2525	Group Exercise Leadership
PE 2640	Burdenko Conditioning
PE 2710	Topics in Fitness
PE 2740	Water Exercise Techniques
PE 2831	Resistance Training Techniques

#### Physical Activity Skills Courses

The Physical Activity Skills courses are credit-bearing electives designed to provide students with the opportunity to learn and engage in a wide variety of physical activities, with the goal of promoting health and life-long participation in physical activity. These courses are graded Pass/No Pass.

#### APPLIED HEALTH FITNESS OPTION

This Option of the Physical Education major includes courses designed to address the knowledge, skills, and applications required of professionals qualified to design, implement, and evaluate physical activity and exercise programs for apparently healthy individuals, as well as individuals with known controlled disease, across the lifespan. The successful graduate is skilled in assessing health behaviors and disease risk, conducting fitness tests, prescribing appropriate physical activ-

ity and exercise, and applying psychosocial theories to promote health enhancing physical activity behaviors. This Option prepares students, academically and practically, for graduate studies, and/or for careers required leadership in organizing, directing, and managing programs for individuals and groups in private, corporate, commercial, and community settings. Students are encouraged to pursue professional certifications with organizations such as American College of Sports Medicine, National Strength and Conditioning Association, National Academy of Sports Medicine, and others.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
<b>PE 2428</b>	<b>Flexibility, Core, and Balance Training</b>	1.5
<b>PE 2525</b>	<b>Group Exercise Leadership</b>	1.5
PE 2550	Foundations of Physical Education (TECO)	3.0
<b>PE 2740</b>	<b>Water Exercise Techniques</b>	1.5
<b>PE 2831</b>	<b>Resistance Training Techniques</b>	1.5
<b>PE 3260</b>	<b>Health Fitness Assessment and Programming</b>	3.0
PE 3570	Kinesiology	3.0
PE 3580	Physiology of Exercise	3.0
<b>PE 3590</b>	<b>Inclusive Physical Activity (DICO) (WRCO)</b>	3.0
<b>PE 3650</b>	<b>Physical Activity and Aging (WECO)</b>	3.0
<b>PE 3750</b>	<b>Physiology of Exercise Laboratory</b>	1.0
<b>PE 4010</b>	<b>Psychosocial Theories of Physical Activity (INCO)</b>	3.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
<b>HE 3220</b>	<b>Applied Nutrition for Healthy Living (TECO)</b>	3.0
Health and Exercise Group—complete six credits of 3000/4000 level Health Education or Physical Education courses [not HEDI or PEDI]		6.0
Individual and Society Group—complete three credits from the following:		3.0
PS 3200	Psychology of Women (DICO)	
PS 3560	Adulthood and Aging	
SO 3010	Aging and Society	
SW 3500	Health and Society (GACO (WECO)	
Group A—complete one of the following:		3.0
PE 2731	Motor Development (WRCO)	
PS 2010	Introduction to General Psychology	
PS 2050	Life-Span Developmental Psychology	
Organization, Management, Marketing, and Communication Group—complete at least two courses from the Business Administration minor or the Professional Communications minor [not BUDI, not CMDI, not ECDI, not ENDI]:		6.0
Capstone Experience—complete three credits from the following:		3.0
PE 4880	Physical Education Internship	
PE 4920	Organization and Administration of Applied Health Fitness I	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3.0
HE 3330	Evaluation and Research in Health Promotion (QRCO)	
MA 2300	Statistics I (QRCO)	
PE 3560	Measurement and Assessment in Physical Education (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SSDI	Self and Society Directions	6.0
GACO	Global Awareness Connection	3.0
<i>Electives</i>		<u>29.0</u>
<b>Total</b>		<b>122.0</b>

PE 4880 requires a minimum grade point average of 2.70 (cumulative and major). PE 4920 requires a minimum major grade point average of 2.00.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
PE 2550	Foundations of Physical Education (TECO)	3.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
CTDI	Creative Thought Direction	3.0
PPDI	Past and Present Directions	<u>6.0</u>
		29.0
Year Two		Credits
<b>Group A—complete one course</b>		3.0
<b>PE 2428</b>	<b>Flexibility, Core, and Balance Training</b>	1.5
<b>PE 2831</b>	<b>Resistance Training Techniques</b>	1.5
PE 3570	Kinesiology	3.0
PE 3580	Physiology of Exercise	3.0
<b>PE 3750</b>	<b>Physiology of Exercise Laboratory</b>	1.0
Organization, Management, Marketing, and Communication Group—complete six credits		6.0
CTDI	Creative Thought Direction	3.0
SSDI	Self and Society Directions	6.0
GACO	Global Awareness Connection	<u>3.0</u>
		31.0
Year Three		Credits
PE 2525	Group Exercise Leadership	1.5
PE 2740	Water Exercise Techniques	1.5
PE 3260	Health Fitness Assessment and Programming	3.0
PE 3590	Inclusive Physical Activity (DICO) (WRCO)	3.0
PE 3650	Physical Activity and Aging (WECO)	3.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
Health and Exercise Group—complete six credits		6.0
QRCO Quantitative Reasoning in the Discipline Connection Elective		<u>7.0</u>
		31.0
Year Four		Credits
PE 4010	Psychosocial Theories of Physical Activity (INCO)	3.0
Individual and Society Group—complete three credits		3.0
Capstone Experience—complete three credits		3.0
Electives		<u>22.0</u>
		31.0
<b>Total</b>		<b>122.0</b>

### CONTRACT OPTION

Upon approval of the Chair of the Department of Health and Human Performance and the advisor, students may graduate with a BS in Physical Education (Contract Option). Students must have completed a minimum of 90 credits in order to select this Option.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
PE 2550	Foundations of Physical Education (TECO)	3
PE 3570	Kinesiology	3
PE 3580	Physiology of Exercise	3

Lower-level PE—complete 15 credits of 1000/2000 level Physical Education courses, with minimally two courses (3 credits) from the following [not PEDI]:			15
PE 2428	Flexibility, Core, and Balance Training		
PE 2525	Group Exercise Leadership		
PE 2640	Burdenko Conditioning		
PE 2740	Water Exercise Techniques		
PE 2831	Resistance Training Techniques		
Upper-level PE—complete 24 credits of 3000/4000 level Physical Education courses [not PEDI]			24
BI 2110	Human Anatomy and Physiology I		4
BI 2120	Human Anatomy and Physiology II		4
Quantitative Reasoning in the Discipline Connection—complete one of the following:			3
HE 3330	Evaluation and Research in Health Promotion (QRCO)		
MA 2300	Statistics I (QRCO)		
PE 3560	Measurement and Assessment in Physical Education (QRCO)		
Writing in the Discipline Connection—complete one of the following:			3
PE 2731	Motor Development (WRCO)		
PE 3590	Inclusive Physical Activity (DICO) (WRCO)		
General Education:			
EN 1200	Composition		3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry		3
MA	Mathematics Foundations		3
CTDI	Creative Thought Directions		6
PPDI	Past and Present Directions		6
SSDI	Self and Society Directions		6
DICO	Diversity Connection		3
GACO	Global Awareness Connection		3
INCO	Integration Connection		3
WECO	Wellness Connection		3
Electives			21
<b>Total</b>			<b>122</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PE 2550	Foundations of Physical Education (TECO)	3
PE	<b>Lower-level PE courses [not PEDI]</b>	6
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		30
Year Two		Credits
PE	<b>Lower-level PE courses [not PEDI]</b>	9
BI 2110	Human Anatomy and Physiology I	4
BI 2120	Human Anatomy and Physiology II	4
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
	Elective	3
		32
Year Three		Credits
PE 3570	Kinesiology	3
PE 3580	Physiology of Exercise	3

PE	Upper-level PE courses [not PEDI]	12
QRCO	Quantitative Reasoning in the Discipline Connection	3
WECO	Wellness Connection	3
WRCO	Writing in the Discipline Connection	3
	Elective	3
		30

Year Four		Credits
PE	Upper-level PE courses [not PEDI]	12
INCO	Integration Connection	3
	Electives	15
		30
<b>Total</b>		<b>122</b>

## PHYSICAL EDUCATION and HEALTH EDUCATION

### TEACHER CERTIFICATION (K–12) OPTION

This Physical Education and Health Education Teacher Certification (K–12) Option is certified at the state level by the New Hampshire Department of Education. Graduates who complete this double Physical Education and Health Education Teacher Certification Option are prepared to teach both physical education and health education and become eligible for K–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. Receiving states may have a difference in grade range and may impose certain special requirements that must be met within a reasonable period of time. For further information, please see the Teacher Education and Clinical Experiences section. Early field experiences within the university setting, practica in school settings, and full semester student teaching experiences provide perspective to the theories and applications as learned in the core and double option.

Admittance into the Teacher Certification Option is based on the following criteria:

- minimum 42 credits earned
- minimum cumulative grade point average of 2.50
- minimum 2.50 grade point average in:
  - PE 2415 Introduction to Physical Education and Health Instruction
  - PE 2550 Foundations of Physical Education
- completion of 15 of the required 45 hours of community service
- passing Praxis I
- up-to-date electronic folio
- meeting with the Coordinator of Teacher Education for Health Education, Physical Education, and Physical Education/Health Education.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
PE	<b>Professional Activity (2000 level) or Physical Activity Skillsv(1000 level) courses [not PEDI]</b>	2.0
PE 2415	<b>Introduction to Physical Education and Health Instruction</b>	3.0
PE 2422	<b>Rhythm and Dance Fundamentals</b>	1.5
PE 2423	<b>Fundamentals in Gymnastics</b>	1.5
PE 2550	Foundations of Physical Education (TECO)	3.0
PE 2731	<b>Motor Development (WRCO)</b>	3.0
PE 2860	<b>Adventure Programming for Physical Educators (WECO)</b>	3.0
PE 3000	<b>Instructional Strategies I—Elementary</b>	4.0
PE 3260	<b>Health Fitness Assessment and Programming</b>	3.0
PE 3310	<b>Curriculum Design and Implementation</b>	3.0
PE 3560	<b>Measurement and Assessment in Physical Education (QRCO)</b>	3.0
PE 3570	Kinesiology	3.0

PE 3580	Physiology of Exercise	3.0
PE 3600	Adapted Physical Education	3.0
PE 3720	Motor Learning	3.0
PE 4000	Instructional Strategies II–Secondary	4.0
<b>Group A Activity—complete one of the following:</b>		1.5
PE 2424	Net and Wall Activities	
PE 2425	Lifetime/Leisure Activities	
PE 2426	Striking and Fielding Activities	
PE 2427	Territorial Activities	
<b>Group B Activities—complete two of the following:</b>		3.0
PE 2428	Flexibility, Core, and Balance Training	
PE 2525	Group Exercise Leadership	
PE 2640	Burdenko Conditioning	
PE 2740	Water Exercise Techniques	
PE 2831	Resistance Training Techniques	
PEHE 4710	Student Teaching K–12: Elementary	6.0
PEHE 4720	Student Teaching K–12: Secondary	6.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
DN 2330	Movement Concepts for Elementary Education	1.0
HE 2900	Disease, Safety, and Environment (WECO)	3.0
HE 3200	Stress Management (WECO)	3.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3660	CPR and First Aid Instructor	1.5
HE 3700	Drug Behavior (WECO)	3.0
HE 3710	Sex and Family Living Education	3.0
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	3.0
<i>General Education:</i>		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SSDI	Self and Society Directions	6.0
GACO	Global Awareness Connection	3.0
<i>Elective</i>		<u>1.0</u>
<b>Total</b>		<b>122.0</b>

PE 3000 requires a minimum cumulative grade point average of 2.50.  
PE 4000 requires a minimum grade of C in PE 3000 and a minimum cumulative grade point average of 2.60. PEHE 4710 and PEHE 4720 require a minimum grade of C in PE 4000 and a minimum cumulative grade point average of 2.70.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
PE	<b>Professional Activity (2000 level) or Physical Activity Skills (1000 level) courses [not PEDI]</b>	2.0
PE 2415	<b>Introduction to Physical Education and Health Instruction</b>	3.0
PE 2422	<b>Rhythm and Dance Fundamentals</b>	1.5
PE 2423	<b>Fundamentals in Gymnastics</b>	1.5
PE 2550	Foundations of Physical Education (TECO)	3.0
PE 2731	Motor Development (WRCO)	3.0
DN 2330	Movement Concepts for Elementary Education	1.0
CTDI	Creative Thought Directions	<u>6.0</u>
		30.0

<b>Year Two</b>		<b>Credits</b>
<b>Group A Activity—complete one course</b>		1.5
PE 3000	<b>Instructional Strategies I – Elementary</b>	4.0
PE 3260	<b>Health Fitness Assessment and Programming</b>	3.0
PE 3570	Kinesiology	3.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
HE 2900	<b>Disease, Safety, and Environment (WECO)</b>	3.0
PPDI	Past and Present Direction	3.0
SSDI	Self and Society Directions	<u>6.0</u>
		31.5

<b>Year Three</b>		<b>Credits</b>
<b>Group B Activities—complete two courses</b>		3.0
PE 2860	<b>Adventure Programming for Physical Educators (WECO)</b>	3.0
PE 3310	<b>Curriculum Design and Implementation</b>	3.0
PE 3560	<b>Measurement and Assessment in Physical Education (QRCO)</b>	3.0
PE 3580	Physiology of Exercise	3.0
PE 3720	<b>Motor Learning</b>	3.0
HE 3200	<b>Stress Management (WECO)</b>	3.0
HE 3700	<b>Drug Behavior (WECO)</b>	3.0
HE 3710	<b>Sex and Family Living Education</b>	3.0
PPDI	Past and Present Direction	3.0
GACO	Global Awareness Connection	<u>3.0</u>
		33.0

<b>Year Four</b>		<b>Credits</b>
PE 3600	Adapted Physical Education	3.0
PE 4000	Instructional Strategies II–Secondary	4.0
PEHE 4710	Student Teaching K–12: Elementary	6.0
PEHE 4720	Student Teaching K–12: Secondary	6.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
HE 3660	CPR and First Aid Instructor	1.5
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	3.0
	<i>Elective</i>	<u>1.0</u>
		27.5
<b>Total</b>		<b>122.0</b>

#### SPORT PHYSIOLOGY OPTION

This Option of the Physical Education major provides a strong science-based curriculum of advanced study in exercise physiology, exercise testing and prescription, strength and conditioning, and research methodology with an emphasis on the improvement and understanding of athletic performance. Laboratory activities, research, and clinical applications are components of this Option. Majors choosing this Option will be prepared for careers in clinical rehabilitation/research settings, strength and conditioning settings, the health/fitness industry, and future graduate study in areas that include but are not limited to exercise science, exercise physiology, kinesiology, physical therapy, etc. This Option prepares students to challenge select certification examinations with organizations such as the American College of Sports Medicine, National Strength and Conditioning Association and others.

<b>Degree Requirements</b>	<b>Credits</b>
Courses required for the Option are shown in boldface.	
PE	<b>Professional Activity (2000 level) or Physical Activity Skills (1000 level) courses [not PEDI]</b>
	4.5
<b>Group A Activity—complete one from the following:</b>	
	1.5
PE 2428	<b>Flexibility, Core, and Balance Training</b>
PE 2525	<b>Group Exercise Leadership</b>
PE 2640	<b>Burdenko Conditioning</b>
PE 2740	<b>Water Exercise Techniques</b>
PE 2550	Foundations of Physical Education (TECO)
	3.0
PE 2731	<b>Motor Development (WRCO)</b>
	3.0



PE 2831	Resistance Training Techniques	1.5
PE 3560	Measurement and Assessment in Physical Education (QRCO)	3.0
PE 3570	Kinesiology	3.0
PE 3580	Physiology of Exercise	3.0
PE 3720	Motor Learning	3.0
PE 3750	Physiology of Exercise Laboratory	1.0
PE 3760	Advanced Laboratory Techniques	3.0
PE 4520	Principles and Theories of Strength and Conditioning	3.0
PE 4770	Cardiovascular Physiology	3.0
PE 4780	Exercise Prescription	3.0
PE 4790	Exercise Biochemistry	3.0
Capstone Experience—complete both courses:		
PE 4800	Senior Research I	3.0
PE 4810	Senior Research II	3.0
AT 3400	Pharmacology for Allied Health	2.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
CH 2130	General Chemistry I (QRCO) (TECO)	3.0
CH 2140	General Chemistry II	3.0
CH 2230	General Chemistry Laboratory I	1.0
CH 2240	General Chemistry Laboratory II	1.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
General Education:		
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
SSDI	Self and Society Directions	6.0
DICO	Diversity Connection	3.0
GACO	Global Awareness Connection	3.0
INCO	Integration Connection	3.0
WECO	Wellness Connection	3.0
Electives		14.5
<b>Total</b>		<b>122.0</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3.0
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA	Mathematics Foundations	3.0
PE	<b>Professional Activity (2000 level) or Physical Activity Skills (1000 level) courses [not PEDI]</b>	<b>3.0</b>
PE 2550	Foundations of Physical Education (TECO)	3.0
PE 2731	<b>Motor Development (WRCO)</b>	<b>3.0</b>
CTDI	Creative Thought Directions	6.0
PPDI	Past and Present Directions	6.0
		30.0

Year Two		Credits
PE	<b>Professional Activity (2000 level) or Physical Activity Skills (1000 level) course [not PEDI]</b>	<b>1.5</b>
<b>Group A Activity—complete one course</b>		<b>1.5</b>
PE 3570	Kinesiology	3.0
BI 2110	Human Anatomy and Physiology I	4.0
BI 2120	Human Anatomy and Physiology II	4.0
SSDI	Self and Society Directions	6.0
DICO	Diversity Connection	3.0

GACO	Global Awareness Connection	3.0
WECO	Wellness Connection	3.0
Elective		3.0
		32.0

Year Three		Credits
PE 2831	Resistance Training Techniques	1.5
PE 3560	Measurement and Assessment in Physical Education (QRCO)	3.0
PE 3580	Physiology of Exercise	3.0
PE 3720	Motor Learning	3.0
PE 3750	Physiology of Exercise Laboratory	1.0
PE 3760	Advanced Laboratory Techniques	3.0
PE 4520	Principles and Theories of Strength and Conditioning	3.0
CH 2130	General Chemistry I (QRCO) (TECO)	3.0
CH 2140	General Chemistry II	3.0
CH 2230	General Chemistry Laboratory I	1.0
CH 2240	General Chemistry Laboratory II	1.0
Electives		4.5
		30.0

Year Four		Credits
PE 4770	Cardiovascular Physiology	3.0
PE 4780	Exercise Prescription	3.0
PE 4790	Exercise Biochemistry	3.0
PE 4800	Senior Research I	3.0
PE 4810	Senior Research II	3.0
AT 3400	Pharmacology for Allied Health	2.0
HE 3220	Applied Nutrition for Healthy Living (TECO)	3.0
INCO	Integration Connection	3.0
Electives		7.0
		30.0
<b>Total</b>		<b>122.0</b>

### TEACHER CERTIFICATION (K–12) OPTION

This Physical Education Teacher Certification program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for K–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. Receiving states may have a difference in grade range and may impose certain special requirements that must be met within a reasonable period of time. For further information, please see the Teacher Education and Clinical Experiences section. Human needs and development, pedagogical principles, skill acquisition, the science of human movement and many other related topics are practiced and demonstrated. Early field experiences within the university setting, practica in school settings, and full semester student teaching experiences provide perspective to the theories and applications as learned in the core and option.

Admittance into the Teacher Certification Option is based on the following criteria:

- minimum 42 credits earned
- minimum cumulative grade point average of 2.50
- minimum 2.50 grade point average in:
  - PE 2415 Introduction to Physical Education and Health Instruction
  - PE 2550 Foundations of Physical Education
- completion of 15 of the required 45 hours of community service
- passing Praxis I
- up-to-date electronic folio



- meeting with the Coordinator of Teacher Education for Health Education, Physical Education and Physical Education/Health Education.

#### Degree Requirements

Courses required for the Option are shown in boldface.

	Credits
<b>PE Professional Activity (2000 level) or Physical Activity Skills (1000 level) courses [not PEDI]</b>	<b>2.0</b>
<b>PE 2415 Introduction to Physical Education and Health Instruction</b>	<b>3.0</b>
<b>PE 2422 Rhythm and Dance Fundamentals</b>	<b>1.5</b>
<b>PE 2423 Fundamentals in Gymnastics</b>	<b>1.5</b>
<b>PE 2550 Foundations of Physical Education (TECO)</b>	<b>3.0</b>
<b>PE 2731 Motor Development (WRCO)</b>	<b>3.0</b>
<b>PE 2860 Adventure Programming for Physical Educators (WECO)</b>	<b>3.0</b>
<b>PE 3000 Instructional Strategies I–Elementary</b>	<b>4.0</b>
<b>PE 3260 Health Fitness Assessment and Programming</b>	<b>3.0</b>
<b>PE 3310 Curriculum Design and Implementation</b>	<b>3.0</b>
<b>PE 3560 Measurement and Assessment in Physical Education (QRCO)</b>	<b>3.0</b>
<b>PE 3570 Kinesiology</b>	<b>3.0</b>
<b>PE 3580 Physiology of Exercise</b>	<b>3.0</b>
<b>PE 3600 Adapted Physical Education</b>	<b>3.0</b>
<b>PE 3720 Motor Learning</b>	<b>3.0</b>
<b>PE 4000 Instructional Strategies II–Secondary</b>	<b>4.0</b>
<b>PE 4710 Physical Education Student Teaching K–12: Elementary</b>	<b>6.0</b>
<b>PE 4720 Physical Education Student Teaching K–12: Secondary</b>	<b>6.0</b>
<b>Group A Activity—complete one of the following:</b>	<b>1.5</b>
<b>PE 2424 Net and Wall Activities</b>	
<b>PE 2425 Lifetime/Leisure Activities</b>	
<b>PE 2426 Striking and Fielding Activities</b>	
<b>PE 2427 Territorial Activities</b>	
<b>Group B Activities—complete two of the following:</b>	<b>3.0</b>
<b>PE 2428 Flexibility, Core, and Balance Training</b>	
<b>PE 2525 Group Exercise Leadership</b>	
<b>PE 2640 Burdenko Conditioning</b>	
<b>PE 2740 Water Exercise Techniques</b>	
<b>PE 2831 Resistance Training Techniques</b>	
<b>BI 2110 Human Anatomy and Physiology I</b>	<b>4.0</b>
<b>BI 2120 Human Anatomy and Physiology II</b>	<b>4.0</b>
<b>DN 2330 Movement Concepts for Elementary Education</b>	<b>1.0</b>
<b>IS 4360 Cultural Diversity and American Society (DICO) (INCO)</b>	<b>3.0</b>
<i>General Education:</i>	
<b>EN 1200 Composition</b>	<b>3.0</b>
<b>IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry</b>	<b>3.0</b>
<b>MA Mathematics Foundations</b>	<b>3.0</b>
<b>CTDI Creative Thought Directions</b>	<b>6.0</b>
<b>PPDI Past and Present Directions</b>	<b>6.0</b>
<b>SSDI Self and Society Directions</b>	<b>6.0</b>
<b>GACO Global Awareness Connection</b>	<b>3.0</b>
<i>Electives</i>	<b>17.5</b>
<b>Total</b>	<b>122.0</b>

PE 3000 requires a minimum cumulative grade point average of 2.50. PE 4000 requires a minimum grade of C in PE 3000 and a minimum cumulative grade point average of 2.60. PE 4710 and PE 4720 require a minimum grade of C in PE 4000 and a minimum cumulative grade point average of 2.70.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. Course sequence is suggested but not required.

Year One	Credits
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA Mathematics Foundations	3.0
<b>PE Professional Activity (2000 level) or Physical Activity Skills (1000 level) courses [not PEDI]</b>	<b>2.0</b>
<b>PE 2415 Introduction to Physical Education and Health Instruction</b>	<b>3.0</b>
<b>PE 2422 Rhythm and Dance Fundamentals</b>	<b>1.5</b>
<b>PE 2423 Fundamentals in Gymnastics</b>	<b>1.5</b>
<b>PE 2550 Foundations of Physical Education (TECO)</b>	<b>3.0</b>
<b>PE 2731 Motor Development (WRCO)</b>	<b>3.0</b>
<b>DN 2330 Movement Concepts for Elementary Education</b>	<b>1.0</b>
<b>CTDI Creative Thought Directions</b>	<b>6.0</b>
	<b>30.0</b>
Year Two	Credits
<b>Group A Activity—complete one course</b>	<b>1.5</b>
<b>PE 2860 Adventure Programming for Physical Educators (WECO)</b>	<b>3.0</b>
<b>PE 3000 Instructional Strategies I–Elementary</b>	<b>4.0</b>
<b>PE 3260 Health Fitness Assessment and Programming</b>	<b>3.0</b>
<b>PE 3570 Kinesiology</b>	<b>3.0</b>
<b>BI 2110 Human Anatomy and Physiology I</b>	<b>4.0</b>
<b>BI 2120 Human Anatomy and Physiology II</b>	<b>4.0</b>
<b>PPDI Past and Present Direction</b>	<b>3.0</b>
<b>SSDI Self and Society Directions</b>	<b>6.0</b>
	<b>31.5</b>
Year Three	Credits
<b>Group B Activities—complete two courses</b>	<b>3.0</b>
<b>PE 3310 Curriculum Design and Implementation</b>	<b>3.0</b>
<b>PE 3560 Measurement and Assessment in Physical Education (QRCO)</b>	<b>3.0</b>
<b>PE 3580 Physiology of Exercise</b>	<b>3.0</b>
<b>PE 3720 Motor Learning</b>	<b>3.0</b>
<b>PPDI Past and Present Direction</b>	<b>3.0</b>
<b>GACO Global Awareness Connection</b>	<b>3.0</b>
<b>Electives</b>	<b>11.5</b>
	<b>32.5</b>
Year Four	Credits
<b>PE 3600 Adapted Physical Education</b>	<b>3.0</b>
<b>PE 4000 Instructional Strategies II–Secondary</b>	<b>4.0</b>
<b>PE 4710 Physical Education Student Teaching K–12: Elementary</b>	<b>6.0</b>
<b>PE 4720 Physical Education Student Teaching K–12: Secondary</b>	<b>6.0</b>
<b>IS 4360 Cultural Diversity and American Society (DICO) (INCO)</b>	<b>3.0</b>
<b>Electives</b>	<b>6.0</b>
	<b>28.0</b>
<b>Total</b>	<b>122.0</b>

Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.

ADVENTURE EDUCATION MINOR		18–19 credits
		Credits
AP 2010	Foundations of Adventure Education	3
AP 2210	Adventure Education Teaching Theories and Methods	3
AP 3500	Adventure Processing and Facilitation	3
Complete three courses from the following:		9–10
AP 2300	Top Rope Rock Climbing	
AP 2400	Paddling Fundamentals	
AP 3110	Challenge Course Fundamentals	
AP 3320	Adventure Education Philosophy and Theory	
AP 3400	Wilderness First Responder	

**COACHING MINOR** **22–25 credits**

This minor is intended to support those who choose careers in coaching school and community sports, education, health, physical education, or recreation. Coaching is a fulfilling, exciting career. Students choosing this minor must meet with the Coaching Minor coordinator.

		Credits
CC 2540	Coaching Effectiveness	3.0
CC 2660	Basic Athletic Training	2.0
CC 3610	Coaching Seminar	1.0
CC 3670	Organization and Administration of Physical Education and Athletics	3.0
CC 3780	Sport in Society	3.0
CC 3860	Psychological Aspects of Sports	3.0
HE 2500*	First Aid and CPR/AED	1.5
HE 3220	Applied Nutrition for Healthy Living	3.0
PE 2831	Resistance Training Techniques	1.5
Complete one of the following:		1–4.0
CC 3880	Coaching Practicum	
CC 4880	Coaching Internship	

\* Students who have a valid certification from professional organizations do not have to take HE 2500. Students must take another course for 1.5 credits or more offered by the Department of Health and Human Performance to replace HE 2500.

CC 3880 requires a minimum 2.00 cumulative GPA. CC 4880 requires a minimum 2.70 cumulative GPA.

HEALTH MINOR		16.5 credits
		Credits
HE 2500	First Aid and CPR/AED	1.5
PE 2850	Wellness Choices for a Healthy, Active Lifestyle (WECO)	3.0
Content Courses—complete four of the following:		12.0
HE 2900	Disease, Safety, and Environment (WECO)	
HE 3200	Stress Management (WECO)	
HE 3210	Mental Health Issues (WECO)	
HE 3220	Applied Nutrition for Healthy Living	
HE 3700	Drug Behavior (WECO)	
HE 3710	Sex and Family Living Education	
HE 4100	Women's Health Issues (WECO)	
PE 3260	Health Fitness Assessment and Programming	
PE 4010	Psychosocial Theories of Physical Activity (INCO)	

**SPORT PHYSIOLOGY MINOR** **20 credits**

The minor in Sport Physiology is designed to provide students with advanced preparation in physiological processes in the human organism relative to exercise and sport performance. The minor consists of advanced coursework in sport physiology, involving students in theoretical and practical application of knowledge. This minor attracts students with academic preparation in athletic training. Students considering graduate study in physiological sciences, advanced athletic training or careers in exercise and/or sport performance would benefit from this minor.

Required:		Credits
AT 3400	Pharmacology for Allied Health Professionals	2
PE 3570	Kinesiology	3
PE 3580	Physiology of Exercise	3
PE 3760	Advanced Laboratory Techniques	3
PE 4520	Principles and Theories of Strength and Conditioning	3
PE 4770	Cardiovascular Physiology	3
PE 4780	Exercise Prescription	3

The prerequisites for the courses in this minor can be found in the course descriptions outlined in this Catalog. Prerequisites include: [(BI 1110 and BI 1120) or BI 2110], BI 2120, (PE 3260 or PE 3750).

# Humanities

## HUMANITIES, Bachelor of Arts

122 credits

Offered by the Humanities Council

Chair: Naomi R. Kline

Council: Elaine S. Allard, Michael W. Allen, David A. Berona,

Katherine C. Donahue, Karolyn Kinane,

Barbara D. Lopez-Mayhew, Paul M. Mroczka, Daniel R. Perkins

The Humanities major enables students to explore a wide range of interrelated areas of study, while embracing broad cultural and international perspectives. Majors can choose to focus their studies in one of three areas: The Americas, Medieval and Renaissance, The World, or they can create their own contract. Students are encouraged to explore boldly, to work independently and in groups, to think critically, and to learn to communicate effectively. Humanities majors are well prepared for careers in, for example, art, business, foreign service, history, journalism, and law. The ability to develop observations and analyze interconnected ideas from several areas is an essential requirement in these professions, and employers highly value the skills of analysis, interpretation, and effective communication found in Humanities majors.

This BA program is designed to include the study of seven academic Humanities disciplines: Art History, Foreign Languages, History, Literature, Music, Philosophy, and Theatre. In addition to the General Education requirements of the University, Humanities major are required to fulfill the following:

**Distribution requirement:** 18 credits; six credits each (two courses) in three of the following disciplines: Anthropology, Art History, English, Foreign Languages (beyond the BA foreign language requirement), History, Music, Philosophy, and Theatre. Courses must be approved by the Humanities advisor.

**Focus requirement:** nine credits of preferably upper-level courses that are geared to the topic of the Humanities capstone experience of the one-year Senior Project; three courses from one Focus area. These courses are decided in conjunction with the student and the Chair of the Humanities Council. The Focus is selected from the following:

- The Americas
- Medieval and Renaissance
- The World (International)
- Contract for a self-designed program, approved by the Humanities Council Chair. The nine credits may be chosen from all disciplines offered at PSU, based on the consent of the Humanities advisor and the Humanities Council.

**Senior Project:** six credits of independent research and writing, supervised by member(s) of the Humanities Council and approved by the Council. The project is presented to the Council as the culminating project in the degree program. It is designed with the student's academic interests in mind.

**Foreign Language:** six credits beyond the University foreign language requirement for a Bachelor of Arts degree. Students may fulfill the requirement by taking six credits of university level foreign language or by demonstrating a reading proficiency in a foreign language (adequacy determined and attested to by the Languages and Linguistics member of the Council). This requirement is different from the foreign language requirement for the Bachelor of Arts degree.

An internship and/or study abroad experience is recommended but not required. All courses taken abroad must be approved in advance. All transfer policies and procedures must be followed if students want to receive credit for these experiences (see Transferring Courses to Plymouth).

A minimum of 21 credits in the major must be at the 3000/4000 level. To insure the opportunity for students to pursue in depth a single discipline in addition to their fulfillment of the Distribution requirements, students may also minor in any of the Humanities disciplines.

## Degree Requirements

## Credits

HU 4010	Senior Project I	3
HU 4020	Senior Project II (WRCO)	3
EN 3090	Technical Communication (TECO) (WRCO)	3
	Foreign Language	6
	Distribution courses (two courses in each of three Humanities disciplines)	18
	Focus courses (three courses from one Focus area)	9
	Quantitative Reasoning in the Discipline Connection—complete one of the following:	3
LL 2000	Introduction to Languages and Linguistics (QRCO)	
PY 2310	Elements of Logic (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Foreign Language (GACO)	8
	<i>Electives</i>	27–25
	<b>Total</b>	<b>122</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

## Distribution and Focus Courses

The following courses may be taken to satisfy the Distribution and Focus requirements. **One course may satisfy either the Distribution requirement or the Focus requirement, but not both.** Courses other than those listed may be taken with the approval of the Humanities Council advisor, the Humanities Council Chair, and the Undergraduate Studies Office, **prior** to enrolling in the course. The numbers in brackets following the course title are keyed to the Focus areas:

[1] The Americas

[2] Medieval and Renaissance

[3] The World

## The Americas [1]

AH 2700	Frameworks of Art: 1900–Present [1, 3]
AH 3450	Architects and Society Since 1900 [1, 3]
AH 3540	Art and Ideas in the 19 <sup>th</sup> Century (GACO) (INCO) [1, 3]
AH 3600	Arts of the United States (DICO) [1]
AH 3750	Woman, Art, and Society (DICO) [1, 2, 3]
AH 4100	Contemporary Art Seminar (INCO) [1, 3]
AN 3040	Mexican Prehistory [1, 3]
AN 3050	Peoples and Cultures of the Caribbean [1, 3]
AN 3190	Anthropology of the Pacific [3]
AN 3200	Anthropology of Religion, Ritual, and Myth [1, 2, 3]
AN 3300	North American Prehistory [1]
AN 3410	Natives of North America [1]
EN 3280	Drama into Film [1, 3]
EN 3450	Women Writers [1, 3]

EN 3590	The Filmmaker's Vision: An Introduction to Film Analysis [1, 3]
EN 3710	Currents in American Literature I (DICO) [1]
EN 3720	Currents in American Literature II (DICO) [1]
FR 3130	Advanced French Composition [1, 3]
FR 3410	Quebec Culture and Literature [1, 3]
FR 4200	Seminar in French [1, 3]
HI 2020	Surveying Themes in United States History [1]
HI 3115	Early American Society to 1776 (DICO) [1]
HI 3116	Revolutionary America, 1763–1815 [1]
HI 3140	Antebellum America, 1815–1860 (DICO) (INCO) [1]
HI 3150	American Civil War and Reconstruction [1]
HI 3330	New Hampshire and New England Historical Sites [1]
HI 3340	New Hampshire and New England History [1]
HI 3350	American Women's History (DICO) [1]
HI 3352	African-American History (DICO) [1]
HI 3354	Health and Illness in American History (WECO) [1]
HI 3356	American Ideas (INCO) [1]
HI 3520	The Great Depression in Film, Print, and on Stage (DICO) (INCO) [1]
HI 3530	US Home Fronts: The 1940s and 1950s (DICO) [1]
HI 3540	Recent Times: The United States, 1960–2000 (DICO) [1]
HI 3560	Gilded Ages? The United States: 1873–1929 (DICO) [1]
HI 3810	Topics in History [1, 2, 3]
MU 3250	Global Jazz (DICO) (GACO) [1, 3]
MU 3320	History and Literature of Music II (INCO) [1, 3]
MU 4340	20th Century Music [1, 3]
PY 3120	History of Philosophy II: Modern (INCO) [1, 3]
PY 3160	History of Philosophy III: Contemporary (INCO) [1, 3]
PY 3540	Philosophy of Religion (INCO) [1, 2, 3]
PY 4770	Great Philosophers Seminar [1, 2, 3]
SP 2010	Intermediate Spanish I (DICO) (GACO) [1, 3]
SP 2020	Intermediate Spanish II (DICO) (GACO) [1, 3]
SP 3120	Spanish Culture and Civilization [1, 3]
SP 3140	Spanish American Culture and Civilization [1]
SP 3250	Ibero-American Women in Literature, Art, and Film [1, 3]
TH 2230	American Musical Theatre (DICO) [1]
TH 2960	World Drama [1, 2, 3]
TH 3930	American Drama (DICO) [1]

#### Medieval and Renaissance [2]

AH 3500	The World of the Crusades (GACO) (INCO) [2, 3]
AH 3710	Ancient Art [2]
AH 3720	Medieval Art [2]
AH 3730	Renaissance Art in Southern Europe (GACO) (INCO) [2, 3]
AN 3030	Ancient Egypt—Land of the Pharaohs [2]
AN 3220	Anthropology of Europe [2, 3]
EN 3270	Gothic Fiction [2, 3]
EN 3560	Genre [1, 2, 3]
EN 4020	Chaucer: The Canterbury Tales [2]
EN 4800	Single Author [1, 2, 3]
HI 2005	Ancient and Medieval Civilizations [2]
MU 3310	History and Literature of Music I [2]
PY 2630	The Concept of Death [2, 3]
PY 3110	History of Philosophy I: Ancient (INCO) [2]
PY 3140	Medieval Philosophy [2]
TH 4510	Theatre History I [2, 3]

#### The World: Europe [3]

AH 3740	Baroque Art [3]
EN 3500	Currents in Global Literature [3]
EN 3610	Currents in British Literature I [3]
EN 3620	Currents in British Literature II [3]
FR 2010	Intermediate French I (DICO) (GACO) [3]
FR 2020	Intermediate French II (DICO) (GACO) [3]
FR 3010	French History and Civilization [3]

FR 3020	French Culture and Conversation [3]
FR 3030	Advanced French (GACO) [3]
FR 3150	French for Business [3]
FR 3210	Readings in French I [3]
FR 3220	Readings in French II [3]
GR 2010	Intermediate German I (GACO) [3]
GR 2020	Intermediate German II (GACO) [3]
GR 3010	Advanced German I [3]
GR 3020	Advanced German II [3]
HI 2015	Monarchs to Modernity: Europe Since 1492 [3]
HI 3455	Early Modern England (GACO) [3]
HI 3460	The British Empire in World History (GACO) [3]
HI 3480	The French Revolution and Napoleonic Era, 1789–1815 (GACO) [3]
HI 3500	Europe in the 20th Century (GACO) [3]
LL 3170	Seminar: Foreign Literatures in Translation [3]
SP 3030	Advanced Spanish (GACO) [3]
SP 4310	Golden Age Literature [2]
SP 4410	The Spanish Novel [3]
SP 4420	The Spanish Drama [3]
SP 4500	Spanish Seminar [3]
TH 4520	Theatre History II [3]

#### The World: Asia/Global [3]

AH 3530	Arts of the Far East (GACO) (INCO) [3]
AN 3400	Anthropology of Sub-Saharan Africa [3]
EN 3290	Postcolonial Literature [3]
HI 2010	World History Since 1500 (GACO) [3]
HI 2710	History of Asian Cultures [3]
HI 3730	Modern History of East Asia (GACO) [3]
HI 3740	History of Japan (GACO) [3]
HI 3750	History of Modern China (GACO) [3]
HI 3760	History of Southeast Asia (GACO) [3]
HI 3765	India and the World (GACO) (INCO) [3]
HI 3820	Topics in History (GACO) [3]
HI 3826	Sex and Empire in Colonial India (GACO) [3]
HI 3828	Women and Global Colonialism (GACO) [3]

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Foreign Language (GACO)	8
	Elective	3
		32
Year Two		Credits
EN 3090	Technical Communication (TECO) (WRCO)	3
	Foreign Language	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Elective	2–0
		29
Years Three and Four		Credits
Distribution courses (two courses in each of three Humanities disciplines)		18

Focus courses (three courses from one Focus area)	9
INCO     Integration Connection	3
WECO     Wellness Connection	3
Electives	22
<b>Year Four</b>	<b>Credits</b>
HU 4010   Senior Project I	3
HU 4020   Senior Project II (WRCO)	3
<b>Total</b>	<b>122</b>

## Interdisciplinary Studies

### **Bachelor of Arts or Bachelor of Science** **122 credits**

Offered by the Interdisciplinary Studies Council

*Chair:* John C. Krueckeberg

*Council:* Patrick F. Cate, Robin DeRosa, Brian W. Eisenhauer,  
Linda S. Levy

The Interdisciplinary Studies Major is a unique opportunity to construct a university major that meets students' intellectual interests and career objectives. This interdisciplinary experience provides students with an alternative to the existing four-year programs available at Plymouth. The Interdisciplinary Studies major provides flexibility by encouraging students to select courses from a variety of academic disciplines and, in effect, lets students design their own education. The areas of study open to students are limited only by interest, imagination, and energy.

The Interdisciplinary Studies Major consists of a minimum of 45 credit hours integrating two or more disciplines. These credits must include at least 24 or 27 credits of upper-division course work (3000/4000 level), depending on the Option chosen, with a minimum of six upper-division credits in each discipline.

In addition to the courses in the Interdisciplinary Studies major, students must complete the General Education requirements. As with all majors, Directions courses cannot be counted in the major. A Quantitative Reasoning in the Discipline Connection (QRCO), a Technology in the Discipline Connection (TECO), and a Writing in the Discipline Connection (WRCO) must be included in the student's contract. Students must complete the University's minimum credit (122) requirement. Upon completion of the program, students will receive either a Bachelor of Science (BS) or a Bachelor of Arts (BA) degree. The BA degree requires one year of one foreign language or competency at the Intermediate II level.

To be admitted to the Interdisciplinary Studies major, students must have at least 45 credits remaining in their degree program. Therefore, students are strongly encouraged to apply prior to reaching the 77 credit mark ( $122 - 45 = 77$  credits). If students have more than 77 credits at the time they enter the major, additional credits are required beyond the 122 credit requirement. For example, if a student has completed 90 credits at the time of entry, he or she needs to take an additional 45 credits. In this case, the total number of credits needed to graduate would be 135 credits (e.g., credits earned at the time of acceptance + 45 credits = total credits required for the degree).

Students submit an application and have a contract accepted and approved by the Interdisciplinary Studies Council before declaring the Interdisciplinary Studies major. To initiate the application process, students are required to meet with a member of the Interdisciplinary Studies Council in the College of University Studies or e-mail is-council@plymouth.edu. Applications are reviewed throughout the academic year. They are due the first day of the month, September through December and February through May.

Students are responsible for designing their Interdisciplinary Studies major with the assistance of faculty advisors from each of the disciplines represented in the major. When designing their major, students choose one of two options:

**Option ONE: Multi-Field Studies.** The Multi-Field Studies Option of the Interdisciplinary Studies major gives students the chance to focus on two or three fields of study (maximum of three disciplines). This program provides an option for students who have intellectual and career objectives that would benefit from a combination of existing disciplines. There have been many successful examples of students who have selected Multi-Field Studies at Plymouth State: one student, preparing



for a career in technology management, combined courses in business and computer science; another student, who wanted a career in the publishing field, selected offerings from art and English; a third student, with a career objective of becoming a biological illustrator, constructed the major from the fields of art and biology. Students are responsible for designing their Multi-Field Studies Option with the assistance of faculty advisors from each of the disciplines represented in the major.

It is recommended that students take IS 2222 Introduction to Interdisciplinary Studies. Students are required to take IS 4444 Interdisciplinary Studies Seminar. A minimum of 24 credits in this Option must be completed at the 3000/4000 level.

Students submit an application and have a contract accepted and approved by the Interdisciplinary Studies Council before declaring the Interdisciplinary Studies/Multi-Field Studies major. To be admitted to the Multi-Field Studies Option of the Interdisciplinary Studies major, students must have at least 45 credits remaining in their degree program. If students have more than 77 credits at the time they enter the major, additional credits are required beyond the 122 credit requirement.

**Option TWO: Thematic Studies.** The Thematic Studies Option of the Interdisciplinary Studies major allows students to construct courses around a chosen focus. Students may select courses from any number of disciplines as long as they can be related to a common theme. Thematic possibilities are unlimited and may include such topics as: world hunger, race in America, postmodern methodologies, global warming, etc. Students are responsible for designing their major with the assistance of a faculty advisor who has experience with the theme and will approve of the courses to be included in the contract.

Students are required to take IS 2222 Introduction to Interdisciplinary Studies and IS 4444 Interdisciplinary Studies Seminar. IS 2222 provides a forum for constructing the Thematic Studies contract. A minimum of 27 credits in this Option must be completed at the 3000/4000 level.

Students submit to the Interdisciplinary Studies Council an application to have their advisor-approved contract accepted and approved by the Council. Only then may the student declare the Thematic Studies option of the Interdisciplinary Studies major. When students submit their contract to the Council, they must have at least 45 credits remaining in their degree program. If students have more than 77 credits at the time they enter the major, additional credits are required beyond the 122 credit requirement.

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

#### EXERCISE BIOLOGY MINOR

21 credits

Offered by the Exercise Biology Minor Council

*Council:* Christopher C. Chabot, Brian T. Healy, Fred Prince, John M. Rosene (Chair)

The minor in Exercise Biology is designed to provide students with advanced preparation in biological processes in the human organism relative to basic and exercise sciences. The minor consists of advanced coursework in biology, psychology, and exercise physiology, involving students in theoretical and practical application of knowledge. Laboratory techniques and application of those techniques are strong components of this minor. This minor attracts students with academic preparation in biology and/or physical education, specifically sport

physiology or applied health fitness. Students considering graduate study in physiological or biological sciences, as well as medical school, would benefit from this minor. Students interested in pursuing this minor should contact the Chair of the Exercise Biology Council. Due to advanced coursework in the biological, psychological and physiological sciences, several of the courses within this minor have specific prerequisites.

Required:	Credits
PE 3580 Physiology of Exercise	3
PE 3750 Physiology of Exercise Laboratory	1
PE 3760 Advanced Laboratory Techniques	3
PE 4790 Exercise Biochemistry	3
PS 3280 Developmental Psychobiology	3
Complete two courses from the following:	8
BI 3040 Microbiology	
BI 3060 Genetics	
BI 4100 Cell Structure and Function	
BI 4180 Biotechnology	
BI 4780 Neurobiology	

The prerequisites for the courses in this minor can be found in the course descriptions outlined in this Catalog. Prerequisites include: [(BI 1110 and BI 1120) or BI 2110], (BI 3020 or BI 3040 or BI 3060), one semester of chemistry with lab, (PS 2010 or PS 2050), junior or senior Biology or Psychology major.

#### LATIN AMERICAN STUDIES MINOR

18 credits

Offered by the Latin American Studies Council

*Council:* Barbara D. Lopez-Mayhew, Sheryl L. Shirley

The Latin American Studies Minor is an area studies program designed to encourage and guide students in pursuit of a deeper knowledge of the Latin American peoples and countries with whom we share the American Continents. The program encourages students to study Latin America because of its intrinsic interest as a significant world region—its cultures, history, literature, politics—and also because of its importance to the United States. Immigration, free-trade agreements, bilingualism, drug traffic, and other issues arising from our interactions with Latin America occupy national news. This minor offers students a formal path to understanding the Latin American cultures and comprehending important international issues. A minimum of six upper-level credits must be completed.

Required:	Credits
Spanish Language	6
Two semester-long courses in Spanish at the level of SP 1110 or above	
Content Courses—complete four of the following:	12
AN 3040 Mexican Pre-History	
AN 3050 Peoples and Cultures of the Caribbean	
IS 4370 Hispanic Culture in the United States (DICO) (INCO)	
PO 3300 Latin American Politics (GACO)	
SPDI 2100 Modern Latin American Literature in Translation (SSDI)	
SP 3140 Spanish American Culture and Civilization	
SP 3250 Ibero-American Women in Literature, Art, and Film	
SP 4400 Survey of the Literary Masterpieces of Spanish America I	
Up to two three-credit courses with the prior approval of the Chair of the Latin American Studies Council	

Possible electives for the minor include courses with Latin American specific content, available through study abroad, internships, independent study, Plymouth State field school courses, and Plymouth experimental course offerings. Spanish language and Spanish American



literature and culture classes are also offered through Plymouth State University's study abroad program in Cuernavaca, Mexico, and other programs provided through the Bagley Center. Please see the Languages and Linguistics Department Chair or the Latin American Studies Council Chair for information on study abroad.

### MEDIEVAL STUDIES MINOR

15 credits

Offered by the Medieval Studies Council

*Council:* Elaine S. Allard, Karolyn Kinane, Naomi R. Kline, Barbara D. Lopez-Mayhew

The Medieval Studies minor is designed to encourage undergraduate students at Plymouth State University to enrich their studies by exploring the Middle Ages in Western Europe. The Medieval Studies minor is an interdisciplinary program designed to appeal to students who desire to break from traditional boundaries. Students will find that material studied in one course is approached from a complementary point of view in other courses. Designation as a minor will be at the student's request to the Chair of the Medieval Studies Council.

#### Required:

	Credits
AH 1110 Survey of Art I	3
Complete four of the following, at least six credits must be at the 3000/4000 level:	12
AH 3500 The World of the Crusades (GACO) (INCO)	
AH 3710 Ancient Art	
AH 3720 Medieval Art	
AN 3200 Anthropology of Religion, Ritual, and Myth	
ENDI 1330 Arthurian Legends: Representations of Leadership, Romance, National Identity, and Spiritual Quest (PPDI)	
EN 4020 Chaucer: Canterbury Tales	
HI 2005 Ancient and Medieval Civilizations	
MU 3310 History and Literature of Music I	
PY 2200 Ideas of the Old Testament (GACO)	
PY 2210 New Testament Thought (GACO)	
PY 3110 History of Philosophy I: Ancient (INCO)	
PY 3140 Medieval Philosophy	
PY 3540 Philosophy of Religion (INCO)	
TH 4510 Theatre History I	

### NEUROSCIENCE MINOR

17 or 19 credits

Offered by the Neuroscience Council

*Chairs:* Christopher C. Chabot and Brian T. Healy

*Council:* Paul M. Fedorchak, John W. Kulig, H. David Zehr

The Neuroscience minor is designed to give students experience in the multidisciplinary field of Neuroscience that includes Biology and Psychology. The program is composed of introductory courses in either Biological or Psychological sciences, component courses offered by these departments, and a capstone experience that involves independent research. Students considering graduate school would benefit from the experience gained from this program.

Students who are interested in this minor should contact one of the Chairs of the Neuroscience Council. Several of the courses stipulated in this minor have specific prerequisites.

#### Required:

	Credits
BI 4780 Neurobiology	4
PS 3280 Developmental Psychobiology	3
Complete one of the following:	3 or 4
BI 4200 Senior Research	
PS 4940 Independent Research in Psychology	

Complete two of the following:

BI 2120	Human Anatomy and Physiology II
BI 4760	Animal Behavior
PS 3210	Learning
PS 3220	Cognitive Psychology
PS 3600	Biological Psychology

7 or 8

The prerequisites for the courses in this minor can be found in the course descriptions outlined in this Catalog. Prerequisites include: BI 2110, PS 2010, junior or senior Biology or Psychology major, permission of Chair and faculty supervisor.

### NORTHERN NEW ENGLAND HERITAGE STUDIES MINOR 15 credits

Offered by the Institute for New Hampshire Studies

The purpose of the minor in Northern New England Heritage Studies is to provide students with a better comprehension of the natural, social, and cultural environment of the region. Students who matriculate toward the minor will gain a better understanding of the unique characteristics of the region. The structure of the minor is designed to impart introductory information about the archaeology, culture, geography, history, and environment of the region, and to provide an avenue for more in-depth analysis through independent study, seminars, and/or internships. The minimum requirement for a minor in Northern New England Heritage Studies is 15 credits. A maximum of six credits may be in 1000/2000 level courses and at least nine credits must be in 3000/4000 level courses. Upon approval of the Director of the Institute for New Hampshire Studies and the Undergraduate Studies Office, students may substitute other courses for the requirements that are listed. To be approved, such courses must relate to the region, utilize a regional approach or reflect some combination of these elements. Anyone seeking more information about enrolling in the minor should contact the Director of the Institute for New Hampshire Studies.

#### Courses Fulfilling the Minor

AN 3110	Cultural Ecology
AN 3260	Historical Archaeology
AN 3410	Natives of North America
BI 3240	Conservation (DICO) (GACO) (INCO)
ENDI 1550	Wilderness Literature (SSDI)
GE 3020	Cultural Geography
GE 3640	The United States
HI 3150	American Civil War and Reconstruction
HI 3330	New Hampshire and New England Historical Sites
HI 3340	New Hampshire and New England History
IS 3480	Perspectives on Wilderness (DICO) (INCO)
LLDI 2100	Introduction to Canadian Studies (PPDI)
PO 3100	American Political Thought
SO 3390	Environment and Society (INCO)
SS 3620	Archaeological Field Methods: Prehistory
SS 3630	Archaeological Field Methods: Historical
SS 3640	Archaeological Field Methods: Nautical

### PEACE and JUSTICE STUDIES MINOR

15 credits

Offered by the Peace and Justice Council

*Council:* Michael L. Fischler, Raymond K. Perkins Jr., Leo R. Sandy, Sheryl L. Shirley

The study of peace/justice is a timely and appropriate focus of scholarship. Perhaps there is no more important topic of serious study in the post cold war period. Ignorance about peace has paved the way to world wars and the subsequent suffering of millions of people; inattention to the demands of social justice has exacerbated those conditions out of which conflict and violence arise. Peace and justice are such important subjects that they should not be the sole province of governmental leaders or the military. On the contrary, it is the right and duty of every citizen to be informed about the conditions that promote and hinder the

furtherance of peace and justice—whether those notions are defined in personal, domestic or global terms.

Required:	Credits
IS 4360 Cultural Diversity and American Society (DICO) (INCO)	3
PO 1030 World Politics (GACO)	3
PY 4910 Independent Study (capstone experience)	3
Complete one of the following:	3
IS 3560 Philosophical Perspectives on War and Peace (GACO) (INCO)	
PY 3560 Philosophical Perspectives on War and Peace (GACO) (INCO)	
Complete one of the following:	3
AN 3170 Anthropology of Conflict and Law	
AN 3900 Applied Anthropology	
IS 3470 Women in Contemporary American Culture (INCO)	
PS 3030 Social Psychology	
PY 1120 Doing Right and Being Right (DICO)	
SO 2380 Social Problems	
SO 3160 Women in World Development	

#### PRE-LAW MINOR 18 credits

Offered by the Pre-Law Council

*Pre-Law Council:* Roger O. Babin, Samuel D. Brickley II, Jonathan J. Darrow, Robert G. Egbert, Jr., Brian W. Eisenhauer, Mark J. Fischler, David A. Mackey

*Pre-Law Advisors:* Roger O. Babin, Esq., Samuel D. Brickley II, Esq., Jonathan J. Darrow, Esq., Mark J. Fischler, Esq.

Students may pursue the Pre-Law minor from nearly any major, but must build an outstanding academic record and demonstrate a sincerity of purpose to be admitted to law school. To be successful in law school, students should also develop core skills, such as analytical and problem solving, critical reading, writing, oral communication and listening, general research, and task organization and management, as well as the values of serving faithfully the interests of others while promoting justice. The Pre-Law minor provides a framework for students to develop these skills and values. Students must achieve a 3.00 grade point average in the Pre-Law minor courses. Students interested in attending law school should contact one of the Pre-Law advisors as early as possible in their undergraduate studies.

Required:	Credits
Group I—complete the following:	
CM 2400 Public Speaking	3
EN 3120 Advanced Composition	3
PY 2000 Basic Argumentation and Debate	3
PY 2310 Elements of Logic	3
Group II—complete one of the following:	3
BU 2440 Business, Ethics, and Society	
CJ 3150 Society, Ethics, and the Law (DICO) (INCO)	
CS 4520 CyberEthics (DICO) (INCO)	
PY 3150 Society, Ethics, and the Law (DICO) (INCO)	
Group III—complete one of the following:	3
BU 2480 Business Law	
BU 3410 Labor and Employment Law for Managers	
BU 3560 Land Use Law and Development	
CJ 2040 Criminal Adjudication	
PO 3630 Constitutional Law: Civil Liberties	
PS 3700 Psychology and Law	

At least one 3000/4000 level course must be taken in either Group II or Group III. Group III courses may not be double-counted towards a student's major. PS 3700 has a prerequisite of PS 2010.

#### WOMEN'S STUDIES MINOR

16 credits

Offered by the Women's Studies Council

*Chair:* Ann K. McClellan

*Council:* Elizabeth A. Ahl, Julie N. Bernier (ex officio), Marcia Schmidt Blaine, Robin DeRosa, Whitney B. Howarth, Catherine F. LeBlanc, Linda S. Levy, Sarah MacNeilage, Wendy J. Palmquist, Sheryl L. Shirley, Alice P. Staples, Candace Yost, H. David Zehr (ex officio)

The Women's Studies minor is an interdisciplinary program which focuses on the diversity of women's lives and work in cultural and historical perspective, and which introduces students to feminist methodologies and explores the use of gender as a tool for analyzing experience. The program is comprised of a common core course, approved courses offered by several departments, and a senior project. Women and men will benefit from pursuing the Women's Studies minor.

#### Required: Credits

Core Course:

WSDI 2500 The F Word: Feminism in the United States (SSDI)	3
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Approved Courses—complete 12 credits, at least nine credits must be at the 3000/4000 level: 12

AH 3750 Women, Art, and Society (DICO)	
CJ 3500 Women and Crime	
ENDI 1500 The Contemporary American Male: His Issues, His Desires (SSDI)	
EN 2250 Identity and Difference in American Literature (DICO)	
EN 3450 Women Writers	
EN 3610 Currents in British Literature I	
HE 4100 Women's Health Issues (WECO)	
HI 3350 American Women's History (DICO)	
HI 3826 Sex and Empire in Colonial India (GACO)	
HI 3828 Women and Global Colonialism (GACO)	
IS 3470 Women in Contemporary American Culture (INCO)	
PO 3350 Women in World Politics	
PS 3200 Psychology of Women (DICO)	
SO 3070 The Sociology of the Family	
SO 3160 Women in World Development	
WS 3300 Women and Sport Cultures (DICO) (WECO)	
WS 3500 Topics in Women's Studies	
WS 3510 Women and Their Environments (INCO)	
WS 4000 Internship	
WS 4010 Women and the Economy	
WS 4910 Independent Study	
WS 4990 Women's Studies Senior Project	1

Only one Approved Course may be selected from the student's major field of study. At least 12 credits of the minor must be completed before the internship occurs. WS 4000 is limited to three credits in the minor. Students may submit a Student Request form to the Women's Studies Council Chair, to request consideration of another course to meet the Approved Courses requirement.

## Department of Languages and Linguistics

### Department of Languages and Linguistics, Hyde Hall

*Chair:* Barbara D. Lopez-Mayhew

*Assistant Professor:* James C. Whiting

*Contract Faculty:* Eric G. Cintron, Wilson A. Garcia, Marie-Therese Gardner

*Adjunct Faculty:* Adelheid Burke, Claudia Coconubo, Virginie Gindoff, Stuart Granoff, Alejandro Henríquez, Jonathan Higgins, Najwa O'Hara, Eileen Ordu, Lewis Overaker, Patricia Rella

The Department of Languages and Linguistics regularly offers language/culture courses in American Sign Language, Arabic, French, German, Latin, Mandarin Chinese, and Spanish. The Department offers media facilities for the enhancement of teaching and learning in multi-media classrooms and language laboratory (see Language Learning Resource Center in the Academic Resources section).

Students are encouraged to spend at least one semester, and preferably their entire junior year, in study abroad. Departmental authorization is required for program approval and credit transfer. Study abroad students are required to complete at least one three-credit course at the 3000/4000 level on-campus after returning from study abroad. Consult Study Abroad in the Academic Resources section of this Catalog for more information. Transfer students seeking a foreign language major must complete at least two upper-level courses on campus.

Initial placement in the French, German, Latin, and Spanish programs is through assessment of high school or other language experience:

- Students who have no previous study or have completed no more than one year of high school French may register for FR 1010. Students who have completed up to two years of high school French may register for FR 1110. Students who have recently completed their third year of high school French or one year 1000-level university French register for FR 2010.
- Students who have no previous study or have completed one year or up to two years of high school German may register for GR 1010. Students who have recently completed their third year of high school German or one year of 1000-level university German register for GR 2010.
- Students who have no previous study or have completed up to two years of high school Latin may register for LA 2050. For Intermediate Latin, contact the Department Chair.
- Students who have no previous study or have completed no more than one year of high school Spanish register for SP 1010. Students who have completed up to two years of high school Spanish may register for SP 1110. Students who have recently completed their third year of high school or one year of 1000-level university Spanish register for SP 2010.

If there is a question about correct placement, students may request a placement exam. Students may receive up to six language credits through the Advanced Placement language exams or up to 12 credits through the Level 2 CLEP exams.

Language majors are encouraged to study a second language or linguistics. Students may count those courses toward elective credits outside the major or elect to complete a minor in Applied Linguistics, French, German, or Spanish.

### FRENCH, Bachelor of Arts

120 credits

The BA in French is a balanced program of study in language, culture, and literature at the 2000 level and above (1000 level courses do not count toward the major).

Degree Requirements		Credits
FR 3010	French History and Civilization	3
FR 3020	French Culture and Conversation	3
FR 3030	Advanced French (GACO) (TECO)	3
FR 3130	Advanced French Composition (WRCO)	3
FR 3210	Readings in French I	3
FR 3220	Readings in French II	3
FR 3410	Quebec Culture and Literature	3
FR 4100	Survey of French Literary Masterpieces I	3
FR 4110	Survey of French Literary Masterpieces II	3
FR	French electives [not FRDI]	24
IS 4360	Cultural Diversity and American Society (DICO) (INCO)	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		27-25
<b>Total</b>		<b>120</b>

Students are encouraged to experience a Junior Year abroad. Students are encouraged to minor in another language or to complete the Applied Linguistics minor.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
FR	French electives [not FRDI]	9
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		30
Year Two		Credits
FR 3020	French Culture and Conversation	3
FR 3030	Advanced French (GACO) (TECO)	3
FR	French elective [not FRDI]	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
	Elective	6-4
		30
Year Three		Credits
FR 3010	French History and Civilization	3
FR 3130	Advanced French Composition (WRCO)	3
FR 3210	Readings in French I	3
FR 3220	Readings in French II	3
FR 3410	Quebec Culture and Literature	3
FR	French elective [not FRDI]	3

WECO	Wellness Connection	3
	Electives	9
		30

Year Four		Credits
FR 4100	Survey of French Literary Masterpieces I	3
FR 4110	Survey of French Literary Masterpieces II	3
FR	French electives [not FRDI]	9
IS 4360	Cultural Diversity and American Society (DICO)	
	(INCO)	3
	Electives	12
		30
<b>Total</b>		<b>120</b>

French majors entering with more than three years of high school French should begin Year One with FR 3020, FR 3030, and FR 3130.

#### SPANISH, Bachelor of Arts 120 credits

The BA in Spanish is a balanced program of study in language, culture, and literature at the 2000 level and above (1000 level courses do not count toward the major).

Degree Requirements		Credits
SP 3030	Advanced Spanish (GACO) (TECO)	3
SP 3120	Spanish Culture and Civilization	3
SP 3140	Spanish American Culture and Civilization	3
SP 3220	Advanced Spanish Composition (WRCO)	3
SP 3330	Spanish Conversation	3
SP 4200	Survey of the Literary Masterpieces of Spain I	3
SP 4210	Survey of the Literary Masterpieces of Spain II	3
SP 4400	Survey of the Literary Masterpieces of Spanish America I	3
SP 4450	Survey of the Literary Masterpieces of Spanish America II	3
SP	Spanish electives [not SPDI]	24
IS 4370	Hispanic Culture in the United States (DICO)	
	(INCO)	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Electives</i>		27-25
<b>Total</b>		<b>120</b>

Students are encouraged to experience a Junior Year abroad. Students are encouraged to minor in another language or to complete the Applied Linguistics minor.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SP	Spanish electives [not SPDI]	9

CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		30

Year Two		Credits
SP 3030	Advanced Spanish (GACO) (TECO)	3
SP 3220	Advanced Spanish Composition (WRCO)	3
SP 3330	Spanish Conversation	3
SP	Spanish elective [not SPDI]	3
LL 2000	Introduction to Language and Linguistics (QRCO)	3
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
	Elective	3-1
		30

Year Three		Credits
SP 3120	Spanish Culture and Civilization	3
SP 3140	Spanish American Culture and Civilization	3
SP 4200	Survey of the Literary Masterpieces of Spain I	3
SP 4400	Survey of the Literary Masterpieces of Spanish America I	3
SP	Spanish electives [not SPDI]	6
WECO	Wellness Connection	3
	Electives	9
		30

Year Four		Credits
SP 4210	Survey of the Literary Masterpieces of Spain II	3
SP 4450	Survey of the Literary Masterpieces of Spanish America II	3
SP	Spanish electives [not SPDI]	6
IS 4370	Hispanic Culture in the United States (DICO)	
	(INCO)	3
	Electives	15
		30
<b>Total</b>		<b>120</b>

Spanish majors entering with more than three years of high school Spanish should begin Year One with SP 3030, SP 3220, and SP 3330.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

#### APPLIED LINGUISTICS MINOR 15 or 16 credits

		Credits
LL 2000	Introduction to Language and Linguistics	3
LLDI 2950	Language Acquisition (SIDI)	3
LL 3500	Research in Applied Linguistics	3
Complete two of the following:		6 or 7
LLDI 2500	The History of the English Language (PPDI)	
LL 4100	TESOL Methods and Practice	
LL 4300	Literacy in Language Learning	

#### FRENCH MINOR 18 credits

Students who transfer to Plymouth State University and who wish to minor in French must take at least one three-credit 3000/4000 level course in French at Plymouth to be granted a French minor.

		Credits
FR 3030	Advanced French (GACO)	3
FR 3130	Advanced French Composition	3
FR	French electives	9
Complete one of the following:		3
LL 2000	Introduction to Language and Linguistics	
LLDI 2950	Language Acquisition (SIDI)	

**GERMAN MINOR****18 credits**

The German minor has a minimum of 18 credits, with the requirement that at least two three-credit courses be completed at the 3000/4000 level. Students who transfer to Plymouth State University and who wish to minor in German must take at least one three-credit 3000/4000 level course in the language at Plymouth to be granted a German minor.

**SPANISH MINOR****18 credits**

Students who transfer to Plymouth State University and who wish to minor in a language must take at least one three-credit 3000/4000 level course in Spanish at Plymouth to be granted a Spanish minor.

	<b>Credits</b>
SP 3030 Advanced Spanish (GACO)	3
SP 3220 Advanced Spanish Composition	3
SP Spanish electives	9
Complete one of the following:	3
LL 2000 Introduction to Language and Linguistics	
LLDI 2950 Language Acquisition (SIDI)	

**TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES****(TESOL) MINOR****19–27 credits**

**Corequisite:** an approved Teacher Certification program

	<b>Credits</b>
LL 2000 Introduction to Language and Linguistics	3
LLDI 2950 Language Acquisition (SIDI)	3
LL 3300 Foundations of Multilingual Multicultural Studies	3
LL 4100 TESOL Methods and Practice	4
LL 4300 Literacy in Language Learning	3
LL 4820 Language Assessment	3
Two semesters of one foreign language at the university level or equivalent*	0–8

\* American Sign Language may satisfy this requirement for the minor but does not satisfy the Global Awareness Connection.

LL 4100 requires a 30-hour field experience.

**TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES****(TESOL) CERTIFICATE****16 credits**

	<b>Credits</b>
LL 2000 Introduction to Language and Linguistics	3
LL 3300 Foundations of Multilingual Multicultural Studies	3
LL 4100 TESOL Methods and Practice	4
LL 4300 Literacy in Language Learning	3
LL 4820 Language Assessment	3

LL 4100 requires a 30-hour field experience.

The TESOL Certificate program is offered through the Frost School of Continuing and Professional Studies. It is open to matriculated (degree-seeking) Plymouth State University students and to continuing education students. The Certificate does **not** provide TESOL certification.

Continuing education students submit an application, including an essay and a \$25 application fee, to the Admission Office. An official secondary school transcript with date of graduation or a satisfactory secondary school equivalency certificate (GED) is also submitted to the Admission Office. Official transcripts of all post-secondary work attempted are required. A maximum of two courses could be transferred in to fulfill Certificate requirements. Applications are processed by the Frost School in collaboration with the Admission Office and the Department Chair or designee. Transfer credits are processed by the Undergraduate Studies Office.

Certificate courses are offered in a sequence beginning with LL 2000, which must be taken first. Anyone earning the Certificate could apply the credits earned in the Certificate toward a degree at Plymouth State University. The Frost School tracks Certificate students' progress and with the Department Chair or designee, provides advising.

A minimum cumulative grade point average of 2.00 in the Certificate is required. Completion of all requirements is determined by the Degree Auditor. Certificates of Completion are issued by the Frost School. Transcripts stating completion of the Certificate are issued by the Registrar's Office.

Completing the TESOL Certificate does **not** equal completion of State certification/endorsement in TESOL K–12.



## Department of Mathematics

**Department of Mathematics**, Hyde Hall

*Chair:* Barbara Boschmans

*Professors:* Larry G. Blaine, Jon M. Maatta, William J. Roberts

*Associate Professor:* Brian P. Beaudrie

*Assistant Professors:* Thomas R. Boucher, John E. Donovan, Dana C.

Ernst, Natalya Vinogradova

*Contract Faculty:* Roger E. Blake, Emily Ricard, Paul C. Wilson

*Skills Application Teacher:* Donna Kelley

### MATHEMATICS, Bachelor of Arts

**120 credits**

This program provides an opportunity for a broad education in the liberal arts while majoring in mathematics. This degree program requires 27 credits of specific mathematics courses with an additional six credits of mathematics electives.

Students should note that most employers from business and industry seek as employees those persons who have coupled their mathematics major with courses from at least one mathematics-related area such as business, computer science, natural science, psychology or social science. Because of this, this degree program enables students to pursue a second major in any of the BA programs offered at Plymouth State University with little or no additional credits beyond the usual total of 120. This requires careful planning and close communication with advisors or chairs of the departments. Students contemplating a double major should examine the requirements of the other non-mathematics BA degree and plan to satisfy the Quantitative Reasoning Connection or other mathematics course requirements with required BA Mathematics courses. The remainder of the required mathematics courses can then generally be satisfied within the electives allowed in the other degree program. Students who pass all or part of the foreign language requirement for the BA by examination will have extra flexibility in pursuing a double major.

Since three semesters of Calculus plus Linear Algebra are basic, students should complete these courses as early as possible. Careful planning in consultation with a member of the Department of Mathematics as soon as a major in Mathematics is declared is essential. Students should check all course descriptions for prerequisites before planning their course schedule. The recommended sequence of courses may be altered for students not prepared to start with Calculus; consult the Mathematics Chair for alternatives. Students contemplating graduate work in mathematics are advised that graduate schools expect entering students to have had more upper-level mathematics courses than the following minimal requirements specify.

Degree Requirements		Credits
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3500	Probability and Statistics for Scientists	3
MA 3540	Multivariable Calculus	4
MA 4140	Algebraic Structures (WRCO)	3
MA 4350	Probability Theory	3
MA	Mathematics electives above 4100 [not MADI]	6
Technology in the Discipline Connection—complete one of the following:		3
CS 2010	Computing Fundamentals (TECO)	
MA 2140	Elementary Functions (TECO)	
MA 3230	Geometries (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6

PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		37–35
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
Foreign Language (GACO)		8
		31

Year Two		Credits
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3500	Probability and Statistics for Scientists	3
MA 3540	Multivariable Calculus	4
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
Elective		2–0
		30

Year Three		Credits
MA 4140	Algebraic Structures (WRCO)	3
MA 4350	Probability Theory	3
MA	Mathematics elective above 4100 [not MADI]	3
DICO	Diversity Connection	3
TECO	Technology in the Discipline Connection	3
WECO	Wellness Connection	3
Electives		11
		29

Year Four		Credits
MA	Mathematics elective above 4100 [not MADI]	3
INCO	Integration Connection	3
Electives		24
		30
<b>Total</b>		<b>120</b>

### MATHEMATICS, Bachelor of Science

**122 credits**

The general purpose of this degree is to provide a program of study in mathematics fostering general mathematical reasoning and the development of the mathematical tools needed for success. Students can choose from elective options tailored toward specific professional career goals. The elective options are Actuarial Mathematics, Applied Mathematics, Middle School Teacher Certification, and Secondary Teacher Certification. This degree program requires a flexible core of



45 credits: 17 credits of specific courses plus 28 credits of mathematics electives, of which 21 are upper-level.

Candidates who have completed Applied Calculus I and II may then complete the major degree requirements for Calculus I and II by completing Calculus II. An appropriately numbered mathematics course in this Catalog that is not specified as a required major course and is not otherwise restricted, qualifies as a Mathematics elective. A mathematics course specified in an Option double counts, if it qualifies, as a Mathematics elective for the major degree requirements.

Degree Requirements		Credits
MA	Mathematics electives above 2100 [not MADI]	7
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
MA	Mathematics electives above 3100 [not MADI]	15
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3200	Discrete Mathematics	3
MA 3500	Probability and Statistics for Scientists	3
MA	Mathematics electives above 4000 [not MADI]	6
Technology in the Discipline Connection—complete one of the following:		3
CS 2010	Computing Fundamentals (TECO)	
MA 2140	Elementary Functions (TECO)	
MA 3230	Geometries (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>32–30</u>
<b>Total</b>		<b>122</b>

Completing one Related Minor (see Applied Mathematics Option) is strongly encouraged.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
GACO	Global Awareness Connection	3
	Elective	3
		32
Year Two		Credits
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3200	Discrete Mathematics	3
MA	Mathematics electives above 2100 [not MADI]	7
MA	Mathematics elective above 3100 [not MADI]	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	<u>2–0</u>
		30

Year Three		Credits
MA	Mathematics electives above 3100 [not MADI]	12
MA 3500	Probability and Statistics for Scientists	3
DICO	Diversity Connection	3
TECO	Technology in the Discipline Connection	3
WECO	Wellness Connection	3
	Electives	<u>6</u>
		30

Year Four		Credits
MA	Mathematics electives above 4000 [not MADI]	6
INCO	Integration Connection	3
	Electives	<u>21</u>
		30
<b>Total</b>		<b>122</b>

#### ACTUARIAL MATHEMATICS OPTION

An actuary utilizes advanced analysis, probability, and statistics to analyze and solve quantitative problems in a business organization. Many problems are related to the insurance industry. This Option seeks to prepare students to complete two preliminary professional examinations.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	<b>Elements of Linear Algebra</b>	3
MA 3200	Discrete Mathematics	3
MA 3280	<b>Statistics II</b>	3
MA 3400	<b>Time and Money</b>	3
MA 3410	<b>Numerical Methods Using the Computer</b>	3
MA 3500	Probability and Statistics for Scientists	3
MA 3510	<b>Differential Equations</b>	3
MA 3540	<b>Multivariable Calculus</b>	4
MA 4140	<b>Algebraic Structures (WRCO)</b>	3
MA 4310	<b>Quantitative Methods with Business Applications</b>	3
MA 4350	<b>Probability Theory</b>	3
MA 4420	<b>Numerical Analysis Using the Computer</b>	3
MA 4510	<b>Advanced Calculus I</b>	3
MA 4520	<b>Advanced Calculus II</b>	3
MA 4560	<b>Advanced Mathematics Problem Solving</b>	3
EC 2550	<b>Macroeconomics (GACO)</b>	3
EC 2560	<b>Microeconomics</b>	3
Technology in the Discipline Connection—complete one of the following:		3
CS 2010	Computing Fundamentals (TECO)	
MA 2140	Elementary Functions (TECO)	
MA 3230	Geometries (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>17–15</u>
<b>Total</b>		<b>122</b>

MA 4520 may be replaced with an elective if the first Actuarial Examination has been passed. Completing one Related Minor (see Applied Mathematics Option) is strongly encouraged.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		32
Year Two		Credits
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3280	Statistics II	3
MA 3500	Probability and Statistics for Scientists	3
MA 3510	Differential Equations	3
MA 3540	Multivariable Calculus	4
SIDI	Scientific Inquiry Directions	6–8
	Elective	2–0
Year Two or Three		Credits
MA 3200	Discrete Mathematics	3
MA 3410	Numerical Methods Using the Computer	3
Year Three		Credits
MA 4350	Probability Theory	3
MA 4510	Advanced Calculus I	3
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
TECO	Technology in the Discipline Connection	3
Year Three or Four		Credits
MA 3400	Time and Money	3
MA 4140	Algebraic Structures (WRCO)	3
MA 4310	Quantitative Methods with Business Applications	3
MA 4420	Numerical Analysis Using the Computer	3
MA 4520	Advanced Calculus II	3
Year Four		Credits
MA 4560	Advanced Mathematics Problem Solving	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	15
<b>Total</b>		<b>122</b>

MA 3410, MA 4140, MA 4310, MA 4420, and MA 4520 are not offered every year; consult the Course Description section.

**APPLIED MATHEMATICS OPTION**

The Applied Mathematics Option combines mathematics with a related minor to prepare students for a position in applied mathematics as well as for graduate work in applied mathematics or some related area.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3200	Discrete Mathematics	3

MA 3410	Numerical Methods Using the Computer	3
MA 3500	Probability and Statistics for Scientists	3
MA 3510	Differential Equations	3
MA 3540	Multivariable Calculus	4
MA 4350	Probability Theory	3
MA 4420	Numerical Analysis Using the Computer	3
MA 4450	Seminar in Applied Mathematics	3
MA 4510	Advanced Calculus I	3
Related Minor Elective—complete one of the following:		3
MA 4310	Quantitative Methods with Business Applications	
MA 4520	Advanced Calculus II	
Related Minor		15
Related Minor or electives		11
Technology in the Discipline Connection—complete one of the following:		3
CS 2010	Computing Fundamentals (TECO)	
MA 2140	Elementary Functions (TECO)	
MA 3230	Geometries (TECO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		6–4
<b>Total</b>		<b>122</b>

Students completing the Business Administration or Economics minor are required to complete MA 4310. Students selecting any other Related Minor are required to complete MA 4520.

**Related Minor:** Students electing the Applied Mathematics Option must complete one minor from the following:

Business Administration	18 credits
Chemistry	20 credits
Computing	19 credits
Earth Science	20–23 credits
Economics	15 or 18 credits
Geography	15 credits
Information Technology	16 or 20 credits
Meteorology	25 or 26 credits including prerequisites
Physics	18 credits
Psychology	19 credits

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA 2550	Calculus I (MATH)	4
MA 2560	Calculus II (QRCO)	4
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	6
		32

Year Two		Credits
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3510	Differential Equations	3
MA 3540	Multivariable Calculus	4
	<b>Related Minor courses</b>	6
SIDI	Scientific Inquiry Directions	6–8
	Elective	2–0

Year Two or Three		Credits
MA 3200	Discrete Mathematics	3
MA 3410	Numerical Methods Using the Computer	3
MA 3500	Probability and Statistics for Scientists	3

Year Three		Credits
MA 4350	Probability Theory	3
MA 4420	Numerical Analysis Using the Computer	3
MA 4510	Advanced Calculus I	3
	<b>Related Minor courses</b>	9
GACO	Global Awareness Connection	3
TECO	Technology in the Discipline Connection	3

Year Three or Four		Credits
MA 4450	Seminar in Applied Mathematics	3
	<b>Related Minor Elective—complete one course</b>	3
DICO	Diversity Connection	3

Year Four		Credits
	<b>Related Minor courses or electives</b>	11
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Elective	4
<b>Total</b>		<b>122</b>

MA 3410, MA 4310, MA 4420, MA 4450, and MA 4520 are not offered every year; consult the Course Description section.

#### MIDDLE SCHOOL TEACHER CERTIFICATION (5–8) OPTION

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for 5–8 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
MA	<b>Mathematics elective above MA 2100 (MATH) [not MADI]</b>	3
MA 2140	Elementary Functions (QRCO) (TECO)	4
MA 2490	Applied Calculus I (QRCO)	4
MA 2500	Applied Calculus II (QRCO)	4
MA 2600	Math Activities Center Practicum	1
MA 3010	Mathematics in Our World II (QRCO)	4
MA 3030	Mathematics Laboratory Activities I	1
MA 3040	Mathematics Laboratory Activities II	1
MA 3080	Introduction to Mathematics Education	2
MA	Mathematics elective above MA 3100 [not MADI]	1
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3200	Discrete Mathematics	3
MA 3230	Geometries (TECO) (WRCO)	4
MA 3460	History of Mathematics (GACO) (WRCO)	3
MA 3500	Probability and Statistics for Scientists	3

MA 4020	<b>The Cultural and Psychological Aspects of Mathematics Learning (DICO) (INCO)</b>	3
MA 4030	<b>Mathematics in the Secondary and Middle School</b>	4
MA 4970	<b>Mathematics Student Teaching (5–8)</b>	10
CD 3000	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3
ED 3350	<b>Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)</b>	3
PS 3190	<b>Development and Understanding (WECO)</b>	3
SE 3090	<b>Introduction to Special Education: Middle and Secondary</b>	3
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
<i>Electives</i>		<u>22–20</u>
<b>Total</b>		<b>122</b>

MA 2490–2500 substitute for MA 2550–2560. **Students must receive a C- or better grade in any mathematics course required for their certification program.** Student Teaching requires a minimum cumulative grade point average of 2.50.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	<b>Mathematics elective above MA 2100 (MATH) [not MADI]</b>	3
MA 2140	<b>Elementary Functions (QRCO) (TECO)</b>	4
MA 2490	<b>Applied Calculus I (QRCO)</b>	4
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Elective	3
		<b>32</b>

Year Two		Credits
MA 2500	<b>Applied Calculus II (QRCO)</b>	4
MA 2600	<b>Math Activities Center Practicum</b>	1
MA 3010	<b>Mathematics in Our World II (QRCO)</b>	4
MA 3030	<b>Mathematics Laboratory Activities I</b>	1
MA 3040	<b>Mathematics Laboratory Activities II</b>	1
MA 3080	<b>Introduction to Mathematics Education</b>	2
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	<u>2–0</u>
		<b>30</b>

Year Three		Credits
MA	Mathematics elective above 3100 [not MADI]	1
MA 3200	Discrete Mathematics	3
MA 3230	<b>Geometries (TECO) (WRCO)</b>	4
MA 3500	Probability and Statistics for Scientists	3
MA 4020	<b>The Cultural and Psychological Aspects of Mathematics Learning (DICO) (INCO)</b>	3
CD 3000	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3

ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary Electives	3 8 31
<b>Year Four</b>	<b>Credits</b>	
MA 3460	History of Mathematics (GACO) (WRCO)	3
MA 4030	Mathematics in the Secondary and Middle School	4
MA 4970	Mathematics Student Teaching (5–8)	10
PS 3190	Development and Understanding (WECO)	3
	Electives	9
		29
<b>Total</b>		<b>122</b>

MA 2490–2500 substitute for MA 2550–2560. MA 3460 is only offered spring of even years and may be completed before or after Student Teaching. MA 4030 is only offered fall semester and is completed prior to Student Teaching.

### SECONDARY TEACHER CERTIFICATION (7–12) OPTION

This Option leads to certification to teach mathematics in the public schools. This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for 7–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
MA	Mathematics elective above MA 2100 (MATH) [not MADI]	3
MA 2140	Elementary Functions (QRCO) (TECO)	4
MA 2550	Calculus I (QRCO)	4
MA 2560	Calculus II (QRCO)	4
MA 2600	Math Activities Center Practicum	1
MA 3030	Mathematics Laboratory Activities I	1
MA 3040	Mathematics Laboratory Activities II	1
MA 3080	Introduction to Mathematics Education	2
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3120	Elements of Linear Algebra	3
MA 3200	Discrete Mathematics	3
MA 3230	Geometries (TECO) (WRCO)	4
MA 3460	History of Mathematics (GACO) (WRCO)	3
MA 3500	Probability and Statistics for Scientists	3
MA 3540	Multivariable Calculus	4
MA 4020	The Cultural and Psychological Aspects of Mathematics Learning (DICO) (INCO)	3
MA 4030	Mathematics in the Secondary and Middle School	4
MA	Mathematics elective above 4100 [not MADI]	3
MA 4140	Algebraic Structures (WRCO)	3
MA 4960	Mathematics Student Teaching (7–12)	10
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)	3
PS 3190	Development and Understanding (WECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3

<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
<i>Electives</i>		<u>14–12</u>
<b>Total</b>		<b>122</b>

Students must receive a C- or better grade in any mathematics course required for their certification program. Student Teaching requires a minimum cumulative grade point average of 2.50.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics elective above MA 2100 (MATH) [not MADI]	3
MA 2140	Elementary Functions (QRCO) (TECO)	4
MA 2550	Calculus I (QRCO)	4
MA 2560	Calculus II (QRCO)	4
MA 2600	Math Activities Center Practicum	1
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
		31

Year Two		Credits
MA 3030	Mathematics Laboratory Activities I	1
MA 3040	Mathematics Laboratory Activities II	1
MA 3080	Introduction to Mathematics Education	2
MA 3110	Logic, Proofs, and Axiomatic Systems (WRCO)	3
MA 3500	Probability and Statistics for Scientists	3
MA 3540	Multivariable Calculus	4
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
	Elective	2–0

Year Two or Three		Credits
MA 3120	Elements of Linear Algebra	3
SSDI	Self and Society Directions	6

Year Three		Credits
MA 3200	Discrete Mathematics	3
MA 3230	Geometries (TECO) (WRCO)	4
MA 3460	History of Mathematics (GACO) (WRCO)	3
MA 4020	The Cultural and Psychological Aspects of Mathematics Learning (DICO) (INCO)	3
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)	3
SE 3090	Introduction to Special Education: Middle and Secondary	3

Year Three or Four	Credits
MA 4140 Algebraic Structures (WRCO)	3
MA Mathematics elective above 4100 [not MADI]	3

Year Four		Credits
MA 4030	Mathematics in the Secondary and Middle School	4
MA 4960	Mathematics Student Teaching (7–12)	10
PS 3190	Development and Understanding (WECO)	3
	Electives	12
<b>Total</b>		<b>122</b>

MA 3460 and MA 4140 are only offered spring of even years and may be completed before or after Student Teaching. MA 4030 is only offered fall semester and is completed prior to Student Teaching.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

GENERAL MATHEMATICS MINOR		19 or 23 credits
		Credits
CS	Computer Science course	3
MA 2300	Statistics I	3
MA	Mathematics course above 2100	3
MA	Mathematics courses above 3100	6
Complete MA 2550 or (MA 2490 and MA 2500)		4 or 8
MA 2550	Calculus I	
MA 2490	Applied Calculus I	
MA 2500	Applied Calculus II	

#### MATHEMATICS MINOR—TEACHER EDUCATION MAJORS

(and Others)

21–23 credits

Certification to teach mathematics does **not** result from completing this minor. A person desiring certification to teach mathematics must complete a mathematics teacher preparation program.

		Credits
MA 2300	Statistics I	3
MA 3010	Mathematics in Our World II	4
MA 3230	Geometries	4
Complete one of the following:		4
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Complete one of the following:		3–4
MA 2500	Applied Calculus II	
MA 2560	Calculus II	
MA 3110	Logic, Proofs, and Axiomatic Systems	
MA 3200	Discrete Mathematics	
Complete one of the following:		3–4
MA 4020	The Cultural and Psychological Aspects of Mathematics Learning (DICO) (INCO)	
MA 4030	Mathematics in the Secondary and Middle School	

STATISTICS MINOR		16–17 credits
		Credits
MA 2200	Finite Mathematics	3
MA 2300	Statistics I	3
MA 3280	Statistics II	3
Complete one of the following:		4
MA 2490	Applied Calculus I	
MA 2550	Calculus I	
Complete one of the following:		3–4
BI 3060	Genetics	
BI 4050	Ecology	
MA 4350	Probability Theory	
PS 4440	Psychological Measurement	
PE 4800	Senior Research I <i>and</i>	
PE 4810	Senior Research II	

TECHNICAL MATHEMATICS MINOR		15 credits
		Credits
MA 2550	Calculus I	4
MA 2560	Calculus II	4
Complete seven credits from the following:		7
MA 3120	Elements of Linear Algebra	
MA 3410	Numerical Methods Using the Computer	
MA 3510	Differential Equations	
MA 3540	Multivariable Calculus	
MA 4350	Probability Theory	
MA 4420	Numerical Analysis Using the Computer	
MA 4450	Seminar in Applied Mathematics	



## Department of Music, Theatre, and Dance

Department of Music, Theatre, and Dance, Silver Cultural Arts Center

Chair: Jonathan C. Santore

Professors: Kathleen H. Arecchi, Gerard J. Corcoran Jr., Carleen A.

Graff, Paul M. Mrocza, Daniel R. Perkins, Richard C. Pfenninger,  
Robert F. Swift

Associate Professors: Elizabeth A. Cox, D. Matthew Kizer,

Contract Faculty: Constance D. Chesebrough, Holly E. Oliver, Amanda  
Whitworth

The Department of Music, Theatre, and Dance offers the BS degree in Music Education and BA degrees in Music and Theatre Arts (for information on the options offered under each degree, please see the individual listings below). The Department also offers minors in Music, Theatre, and Dance, as well as coursework in these three areas that can be applied toward Interdisciplinary Studies majors.

Applicants to all Departmental majors or minors must meet the regular requirements for admission to the University and must also pass an audition/interview with Departmental faculty in their area. Prospective students should contact the Department Chair for audition/interview guidelines and scheduling. Students interested in auditioning for Departmental Talent Grants must do so on specific dates, as outlined in the audition/interview guidelines.

Several specific policies concerning academic work and degree requirements for Music, Music Education, and Theatre Arts majors are contained in the Music Student Handbook and Theatre Student Handbook, available online at the Department's Web page. Students should carefully consult the handbook for their major area.

In addition to its academic degrees, the Department sponsors several groups that provide students from across campus with opportunities to perform. These include: Chamber Players, Chamber Singers, University Chorale, Contemporary Dance Ensemble, Guitar Workshop, Jazz Ensemble, Jazz Workshop (combos), The Music Theatre Company, Pemigewasset Choral Society, Percussion Ensemble, Piano Ensemble, PSU Theatre, and Symphonic Band. Please contact the Department Office for information about audition requirements and credit-earning opportunities with these organizations.

### MUSIC, Bachelor of Arts 120 credits

Degree candidates are required to choose from one of the four options: Contract, Music Technology, Piano Performance and Pedagogy, or Voice Performance and Pedagogy. Students in options other than the Contract Option are required to present both a junior and senior solo performance.

### CONTRACT OPTION

The Contract Option allows students to design an individualized program of study. A full-time member of the Music faculty and the Department Chair must approve the program of study in the Contract option.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
ME/MU	<b>Contract courses [not MEDI/MUDI]</b>	6
ME/MU	<b>3000/4000 level Contract courses [not MEDI/MUDI]</b>	6
MU 1150	<b>Piano Class I</b>	1
MU 1160	<b>Piano Class II</b>	1
MU 1210	Musicianship I	4
MU 1220	Musicianship II	4
MU 2210	Musicianship III	3
MU 2220	Musicianship IV	3
MU 3200	Technology in Music Performance (TECO)	3
MU 3250	Global Jazz (DICO) (GACO)	3

MU 3310	History and Literature of Music I	3
MU 3320	History and Literature of Music II (INCO) (WRCO)	3
MU	<b>Ensembles [not MUDI]</b>	5
MU	<b>Performance Studies (two enrollments each at the 1000, 2000, 3000 levels) [not MUDI]</b>	6
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 1500	Mathematics and the Humanities (QRCO)	
MA 2200	Finite Mathematics (QRCO)	
MA 2300	Statistics I (QRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		28–26
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

At least six credits of Contract courses must be upper-level and no more than four credits beyond those already required may be in Performance Studies. MU 1160 requires a minimum grade of C in MU 1150. MU 1220 requires a minimum grade of C in MU 1210. MU 2210 requires a minimum grade of C in MU 1220. MU 2220 requires a minimum grade of C in MU 2210.

### MUSIC TECHNOLOGY OPTION

It is suggested that students enrolled in this Option include among their electives, computer and basic programming courses offered by the Computer Science and Technology Department.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
MU 1150	<b>Piano Class I</b>	1.0
MU 1160	<b>Piano Class II</b>	1.0
MU 1210	Musicianship I	4.0
MU 1220	Musicianship II	4.0
MU 2210	Musicianship III	3.0
MU 2220	Musicianship IV	3.0
MU 3200	Technology in Music Performance (TECO)	3.0
MU 3250	Global Jazz (DICO) (GACO)	3.0
MU 3310	History and Literature of Music I	3.0
MU 3320	History and Literature of Music II (INCO) (WRCO)	3.0
MU 3410	<b>Seminar in the Music Business</b>	3.0
MU 4110	<b>Advanced MIDI and Film Scoring</b>	3.0
MU 4150	<b>Introduction to Multitrack and Hard Disk Recording</b>	3.0
MU 4210	<b>Arranging</b>	3.0
MU 4270	<b>Composition (two enrollments)</b>	2.0
MU	<b>Ensembles [not MUDI]</b>	6.0
MU	<b>Performance Studies (two enrollments each at the 1000, 2000, 3000 levels) [not MUDI]</b>	6.0
Junior Elective—complete one of the following:		0.5
MU 3010	Junior Recital	
MU 3990	Music Technology Junior Project	
Senior Elective—complete one of the following:		1.0
MU 4010	Senior Recital	
MU 4990	Music Technology Senior Project	



<b>TH 3310 Theatre Technology: Topics</b>	<b>3.0</b>
Quantitative Reasoning in the Discipline Connection—complete one of the following:	3.0
MA 1500 Mathematics and the Humanities (QRCO)	
MA 2200 Finite Mathematics (QRCO)	
MA 2300 Statistics I (QRCO)	
<i>General Education:</i>	
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA Mathematics Foundations	3.0
PPDI Past and Present Directions	6.0
SIDI Scientific Inquiry Directions	6–8.0
SSDI Self and Society Directions	6.0
WECO Wellness Connection	3.0
<i>Foreign Language (GACO)</i>	8.0
<i>Electives</i>	<u>20.5–18.5</u>
<b>Total</b>	<b>120.0</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

MU 1160 requires a minimum grade of C in MU 1150. MU 1220 requires a minimum grade of C in MU 1210. MU 2210 requires a minimum grade of C in MU 1220. MU 2220 requires a minimum grade of C in MU 2210.

#### PIANO PERFORMANCE AND PEDAGOGY OPTION

The goal of this Option is to provide students possessing the requisite piano/musical abilities and career interests, a coherent program of study leading to admission to a graduate degree program in piano performance and pedagogy and/or the establishment of a private piano teaching studio. In the Practicum experiences, students will teach private or class piano lessons under the mentorship of a member of the piano faculty.

Degree Requirements	Credits
Courses required for the Option are shown in boldface.	
MU 1210 Musicianship I	4.0
MU 1220 Musicianship II	4.0
<b>MU 1540 Piano Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 2100 Keyboard Accompanying (four enrollments)</b>	<b>2.0</b>
<b>MU 2140 Piano Performance Lab (eight enrollments)</b>	<b>0.0</b>
MU 2210 Musicianship III	3.0
MU 2220 Musicianship IV	3.0
<b>MU 2540 Piano Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 3010 Junior Recital</b>	<b>0.5</b>
<b>MU 3070 Piano Pedagogy I</b>	<b>2.0</b>
<b>MU 3080 Piano Pedagogy II</b>	<b>2.0</b>
MU 3200 Technology in Music Performance (TECO)	3.0
MU 3250 Global Jazz (DICO) (GACO)	3.0
MU 3310 History and Literature of Music I	3.0
MU 3320 History and Literature of Music II (INCO) (WRCO)	3.0
<b>MU 3350 Piano Literature I</b>	<b>2.0</b>
<b>MU 3360 Piano Literature II</b>	<b>2.0</b>
<b>MU 3540 Piano Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 4010 Senior Recital</b>	<b>1.0</b>
<b>MU 4420 Practicum: Piano Teaching (two enrollments)</b>	<b>4.0</b>
<b>MU 4540 Piano Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU Ensembles [not MUDI]</b>	<b>6.0</b>
Quantitative Reasoning in the Discipline Connection—complete one of the following:	3.0
MA 1500 Mathematics and the Humanities (QRCO)	
MA 2200 Finite Mathematics (QRCO)	
MA 2300 Statistics I (QRCO)	

<i>General Education:</i>	
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0
MA Mathematics Foundations	3.0
PPDI Past and Present Directions	6.0
SIDI Scientific Inquiry Directions	6–8.0
SSDI Self and Society Directions	6.0
WECO Wellness Connection	3.0
<i>Foreign Language (GACO)</i>	8.0
<i>Electives</i>	<u>15.5–13.5</u>
<b>Total</b>	<b>120.0</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

MU 1220 requires a minimum grade of C in MU 1210. MU 2210 requires a minimum grade of C in MU 1220. MU 2220 requires a minimum grade of C in MU 2210.

#### VOICE PERFORMANCE AND PEDAGOGY OPTION

The goal of this Option is to provide students possessing the requisite vocal/musical abilities and career interests, a coherent program of study leading to admission to a graduate degree program in voice performance, voice performance and pedagogy, and/or the establishment of a private voice teaching studio. In the Practicum experiences students will teach private or class voice lessons under the mentorship of a member of the voice faculty.

Degree Requirements	Credits
Courses required for the Option are shown in boldface.	
<b>MU 1150 Piano Class I</b>	<b>1.0</b>
<b>MU 1160 Piano Class II</b>	<b>1.0</b>
MU 1210 Musicianship I	4.0
MU 1220 Musicianship II	4.0
<b>MU 1420 Voice Performance Lab I (two enrollments)</b>	<b>0.0</b>
<b>MU 1520 Voice Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 2000 Diction for Singers</b>	<b>2.0</b>
MU 2210 Musicianship III	3.0
MU 2220 Musicianship IV	3.0
<b>MU 2520 Voice Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 3010 Junior Recital</b>	<b>0.5</b>
MU 3200 Technology in Music Performance (TECO)	3.0
MU 3250 Global Jazz (DICO) (GACO)	3.0
MU 3310 History and Literature of Music I	3.0
MU 3320 History and Literature of Music II (INCO) (WRCO)	3.0
<b>MU 3420 Vocal Performance Lab II (six enrollments)</b>	<b>0.0</b>
<b>MU 3430 Survey of Vocal Literature</b>	<b>2.0</b>
<b>MU 3520 Voice Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU 4010 Senior Recital</b>	<b>1.0</b>
<b>MU 4280 Voice Pedagogy for Majors</b>	<b>2.0</b>
<b>MU 4430 Practicum: Voice Teaching (two enrollments)</b>	<b>4.0</b>
<b>MU 4520 Voice Performance Studies (two enrollments)</b>	<b>4.0</b>
<b>MU Ensembles [not MUDI]</b>	<b>8.0</b>
<b>ME 2130 Piano Class III</b>	<b>1.0</b>
<b>ME 2140 Piano Class IV</b>	<b>1.0</b>
Quantitative Reasoning in the Discipline Connection—complete one of the following:	3.0
MA 1500 Mathematics and the Humanities (QRCO)	
MA 2200 Finite Mathematics (QRCO)	
MA 2300 Statistics I (QRCO)	
<i>General Education:</i>	
EN 1200 Composition	3.0
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry	3.0

MA	Mathematics Foundations	3.0
PPDI	Past and Present Directions	6.0
SIDI	Scientific Inquiry Directions	6–8.0
SSDI	Self and Society Directions	6.0
WECO	Wellness Connection	3.0
Foreign Language (GACO)		8.0
Electives		13.5–11.5
<b>Total</b>		<b>120.0</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

ME 2130 requires a minimum grade of C in MU 1160. ME 2140 requires a minimum grade of C in ME 2130. MU 1160 requires a minimum grade of C in MU 1150. MU 1220 requires a minimum grade of C in MU 1210. MU 2210 requires a minimum grade of C in MU 1220. MU 2220 requires a minimum grade of C in MU 2210.

#### **MUSIC EDUCATION (K–12), Bachelor of Science 124 credits**

Students who choose to major in Music Education become prepared to teach and supervise vocal, instrumental, and general music from kindergarten through grade 12. This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this major are eligible for K–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth graduates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section.

Students in this program are required to present a senior solo recital that must be completed prior to the semester in which they are student teaching. Music Education majors may request permission to receive private instruction on a second instrument.

To be approved for Student Teaching, students must have completed all departmental course requirements through the third year and have at least a 2.50 cumulative grade point average. They also must have passed the level-change jury exam allowing them to study at the 4000 level on their major instrument. Students who do not pass the examination must retake it until it is successfully completed. Student Teaching requires a minimum cumulative grade point average of 2.50 and a 2.70 composite grade point average (see Student Teaching course description).

The progress and dispositions of both candidates and aspiring candidates toward teacher certification in Music Education, and an eventual career in the field, is assessed periodically by the Music faculty; see Road to Teacher Certification in the Teacher Education and Clinical Experiences section of this Catalog. Students who are withdrawn from the BS program in Music Education because of failure to meet these standards will be given the opportunity to complete the BA Music degree, Contract option.

Degree Requirements		Credits
ME 1010	Introduction to Music Education	3
ME 1200	Voice Class I	1
ME 2130	Piano Class III	1
ME 2140	Piano Class IV	1
ME 2150	String Class	1
ME 3110	Elementary School Music Methods	3
ME 3130	Woodwinds I	1
ME 3140	Woodwinds II	1

ME 3160	Percussion Class	1
ME 3210	Upper Brass Techniques	1
ME 3220	Lower Brass Techniques	1
ME 3500	Technology for Music Educators (TECO)	3
ME 4200	Secondary School Music Methods	3
ME 4500	Senior Recital: Music Education	0
Conducting Elective—complete one of the following:		2
ME 3250	Choral Conducting	
ME 3260	Instrumental Conducting	
Literature and Techniques Elective—complete one of the following:		2
ME 3340	Choral Literature and Techniques	
ME 3350	Instrumental Literature and Techniques	
Student Teaching—complete ME 4850 or (ME 4860 and ME 4870):		12
ME 4850	Kindergarten Through Grade 12 Student Teaching	
ME 4860	Student Teaching K–12: Elementary Component	
ME 4870	Student Teaching K–12: Secondary Component	
MU 1150	Piano Class I	1
MU 1160	Piano Class II	1
MU 1210	Musicianship I	4
MU 1220	Musicianship II	4
MU 2210	Musicianship III	3
MU 2220	Musicianship IV	3
MU 2260	Basic Conducting	2
MU 3250	Global Jazz (DICO) (GACO)	3
MU 3310	History and Literature of Music I	3
MU 3320	History and Literature of Music II (INCO) (WRCO)	3
MU	Ensembles [not MUDI]	7
MU Performance Studies (two enrollments each at the 1000, 2000, 3000 levels; one enrollment at the 4000 level) [not MUDI]		14
CD 3000	Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)	3
PS 3190	Development and Understanding (WECO)	3
Special Education Elective—complete one of the following:		3
SE 2080	Children with Disabilities	
SE 3090	Introduction to Special Education: Middle and Secondary Quantitative Reasoning in the Discipline Connection—	
complete one of the following:		3
MA 1500	Mathematics and the Humanities (QRCO)	
MA 2200	Finite Mathematics (QRCO)	
MA 2300	Statistics I (QRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6
SSDI	Self and Society Directions	6
<b>Total</b>		<b>124</b>

Piano majors substitute MU 3070/3080 for MU 1150/1160 and ME 2130/2140. Voice majors substitute MU 4280 for ME 1200. Students may omit methods classes in their Performance Studies area. ME 2130 requires a minimum grade of C in MU 1160. ME 2140 requires a minimum grade of C in ME 2130. MU 1160 requires a minimum grade of C in MU 1150. MU 1220 requires a minimum grade of C in MU 1210. MU 2210 requires a minimum grade of C in MU 1220. MU 2220 requires a minimum grade of C in MU 2210. Student Teaching requires a minimum cumulative grade point average of 2.50 and a 2.70 composite grade point average (see Student Teaching course description).

**THEATRE ARTS, Bachelor of Arts****120 credits**

In addition to the regular requirements for admission to Plymouth State University, applicants must audition or present a portfolio to be accepted into the major (all options). Requirements vary according to Option; therefore, prospective students should contact the Director of Theatre or Department Chair to receive audition guidelines and to schedule an audition.

**ACTING OPTION**

The Acting Option provides students with an aptitude for acting, a coherent program of study that will prepare them for a career in this field or for further study at the graduate level. The development of the student actor within the context of the greater liberal arts framework is emphasized. Students wishing to declare this Option may only do so after successfully auditioning for the Theatre faculty.

**Degree Requirements****Credits**

Courses required for the Option are shown in boldface.

TH 1600	Introduction to Theatre	3
<b>TH 1650</b>	<b>Practicum in Production</b>	<b>3</b>
TH 2100	Technology for Theatre Professionals (TECO)	3
<b>TH 2260</b>	<b>Voice and Diction I</b>	<b>3</b>
TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
<b>TH 3160</b>	<b>Stage Movement</b>	<b>2</b>
TH 3210	Script Analysis	3
<b>TH 3270</b>	<b>Voice and Diction II</b>	<b>3</b>
<b>TH 3670</b>	<b>Advanced Practicum in Production</b>	<b>3</b>
<b>TH 3900</b>	<b>Acting II</b>	<b>3</b>
<b>TH 3930</b>	<b>American Drama (DICO) (WRCO)</b>	<b>3</b>
TH 4610	Directing for the Stage (INCO)	3
<b>TH 4810</b>	<b>Acting III</b>	<b>3</b>
Theatre History Elective—complete one of the following:		3
TH 4510	Theatre History I	
TH 4520	Theatre History II	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>32–30</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**CONTRACT OPTION**

The Contract Option provides students with the opportunity to design a program of study that will lead them toward a life and/or career path that differs from those that are available through the other options. The program of study in this Option will be developed with the guidance and approval of a member of the Theatre faculty.

**Degree Requirements****Credits**

Courses required for the Option are shown in boldface.

TH 1600	Introduction to Theatre	3
<b>TH 1650</b>	<b>Practicum in Production</b>	<b>4</b>
TH 2100	Technology for Theatre Professionals (TECO)	3

TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
TH 3210	Script Analysis	3
<b>TH 3670</b>	<b>Advanced Practicum in Production</b>	<b>4</b>
<b>TH 3930</b>	<b>American Drama (DICO) (WRCO)</b>	<b>3</b>
TH 4610	Directing for the Stage (INCO)	3
Theatre History Elective—complete one of the following:		3
TH 4510	Theatre History I	
TH 4520	Theatre History II	
<b>TH Contract courses [not THDI]</b>		<b>6</b>
<b>TH 3000/4000 level Contract courses [not THDI]</b>		<b>6</b>
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>32–30</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

At least six credits of Contract courses must be 3000/4000 level.

**DRAMATIC WRITING OPTION**

The Dramatic Writing Option provides students with an aptitude for writing for performance, a coherent program of study, which will prepare them for a career in this area or for further study at the graduate level. The development of the student writer within the context of the greater liberal arts framework is emphasized. Students wishing to declare this Option may do so after an evaluation of submitted writing samples and successfully interviewing with the Theatre faculty.

**Degree Requirements****Credits**

Courses required for the Option are shown in boldface.

TH 1600	Introduction to Theatre	3
<b>TH 1650</b>	<b>Practicum in Production</b>	<b>4</b>
TH 2100	Technology for Theatre Professionals (TECO)	3
TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
TH 3210	Script Analysis	3
<b>TH 3670</b>	<b>Advanced Practicum in Production</b>	<b>4</b>
TH 4610	Directing for the Stage (INCO)	3

**Dramatic Writing Electives—complete 12 credits from the following:**

<b>TH 3340</b>	<b>Writing for Performance (Topics)</b>	
<b>EN 3680</b>	<b>Scriptwriting</b>	
Theatre History Elective—complete one of the following:		3
TH 4510	Theatre History I	
TH 4520	Theatre History II	
<b>Writing in the Discipline Connection—complete one of the following:</b>		<b>3</b>
TH 2230	American Musical Theatre (DICO) (WRCO)	
TH 3930	American Drama (DICO) (WRCO)	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		32–30
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

The subjects covered in Topics courses vary from semester to semester. Course may be repeated as long as topic covered is different.

**MUSIC THEATRE PERFORMANCE OPTION**

The Music Theatre Performance Option provides a program of study that prepares students for a career in this area or for further study at the graduate level. The development of the student music theatre performer within the context of the greater liberal arts framework is emphasized. Students wishing to declare this Option may only do so after successfully auditioning. Specific policies concerning Performance Study examinations (called “Jury Exams”) and Recital Attendance are fully explained in the *Music Student Handbook*.

**Degree Requirements Credits**

Courses required for the Option are shown in boldface.

TH 1600	Introduction to Theatre	3
TH 1650	<b>Practicum in Production (two enrollments)</b>	2
TH 2100	Technology for Theatre Professionals (TECO)	3
TH 2230	<b>American Musical Theatre (DICO) (WRCO)</b>	3
TH 2260	<b>Voice and Diction I</b>	3
TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
TH 3160	<b>Stage Movement</b>	2
TH 3170	<b>Musical Theatre Singing Techniques</b>	2
TH 3210	Script Analysis	3
TH 3900	<b>Acting II</b>	3
TH 4610	Directing for the Stage (INCO)	3
Theatre History Elective—complete one of the following:		3
TH 4510	Theatre History I	
TH 4520	Theatre History II	
MU 1150	<b>Piano Class I</b>	1
MU 1160	<b>Piano Class II</b>	1
MU 1210	<b>Musicianship I</b>	4
MU 1420	<b>Vocal Performance Lab I</b>	0
MU 1510	<b>Voice Performance Studies (two enrollments)</b>	2
MU 2370	<b>The Music Theatre Company (two enrollments)</b>	2
MU 2510	<b>Voice Performance Studies (two enrollments)</b>	2
MU 3420	<b>Vocal Performance Lab II (three enrollments)</b>	0
MU 3510	<b>Voice Performance Studies (two enrollments)</b>	2
MU 4510	<b>Voice Performance Studies (two enrollments)</b>	2
Choral Experiences—two enrollments in any combination:		2
MU 2380	<b>Chamber Singers</b>	
MU 2440	<b>University Chorale</b>	
Dance Electives—complete six credits from the following:		6
DN 1230	<b>Ballet I</b>	
DN 1260	<b>Modern Dance I</b>	
DN 1280	<b>Jazz Dance I</b>	

DN 1740	<b>Tap I</b>	
DN 2260	<b>Modern Dance II</b>	
DN 2520	<b>Tap II</b>	
DN 2670	<b>Jazz Dance II</b>	
DN 2710	<b>Ballet II</b>	
DN 3200	<b>Dance Styles for Musical Theatre</b>	
DN 3260	<b>Topics in Dance</b>	
DN 3270	<b>Advanced Modern Dance</b>	
DN 3360	<b>Advanced Ballet</b>	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		16–14
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**One two-credit semester of Voice Performance Studies may not substitute for two semesters of one-credit Voice Performance Studies.** MU 1160 requires a minimum grade of C in MU 1150.

**THEATRE HISTORY AND LITERATURE OPTION**

The Theatre History and Literature Option provides students with an aptitude for scholarship and criticism, a coherent program of study which will prepare them for a career in the literary/critical areas of theatre or for further study at the graduate level. The development of the student scholar/critic within the context of the greater liberal arts framework is emphasized. Students wishing to declare this Option may do so after successfully interviewing with the Theatre faculty.

**Degree Requirements Credits**

Courses required for the Option are shown in boldface.

TH 1600	Introduction to Theatre	3
TH 1650	<b>Practicum in Production</b>	2
TH 2100	Technology for Theatre Professionals (TECO)	3
TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
TH 3210	Script Analysis	3
TH 3670	<b>Advanced Practicum in Production</b>	3
TH 3930	<b>American Drama (DICO) (WRCO)</b>	3
TH 4510	<b>Theatre History I</b>	3
TH 4520	<b>Theatre History II</b>	3
TH 4610	Directing for the Stage (INCO)	3
Literature Electives—complete 12 credits:		12
TH 2230	<b>American Musical Theatre (DICO) (WRCO)</b>	
TH 2960	<b>World Drama</b>	
TH 3410	<b>Dramatic Literature and Criticism (Topics)</b>	
EN 3280	<b>Drama Into Film</b>	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8

SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language</i> (GACO)		8
<i>Electives</i>		32–30
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

The subjects covered in Topics courses vary from semester to semester. Course may be repeated as long as topic covered is different.

#### THEATRICAL DESIGN/TECH OPTION

The Theatrical Design/Tech Option provides students with an aptitude for design/tech, a coherent program of study that will prepare them for a career in this area or for further study at the graduate level. The development of the student designer/technician within the context of the greater liberal arts framework is emphasized. Students wishing to declare this Option may only do so after successfully interviewing with the Theatre faculty.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
TH 1600	Introduction to Theatre	3
<b>TH 1650</b>	<b>Practicum in Production</b>	<b>4</b>
TH 2100	Technology for Theatre Professionals (TECO)	3
TH 2500	Stagecraft Fundamentals (QRCO)	3
TH 2540	Introduction to Theatre Design	3
TH 2600	Fundamentals of Costume Construction and Design	3
TH 2720	Acting I	3
TH 3210	Script Analysis	3
<b>TH 3400</b>	<b>Stage Management</b>	<b>3</b>
<b>TH 3670</b>	<b>Advanced Practicum in Production</b>	<b>4</b>
TH 4610	Directing for the Stage (INCO)	3
<b>Theatre Topics—complete nine credits:</b>		<b>9</b>
TH 3300	Design for the Theatre (Topics)	
TH 3310	Theatre Technology: Topics	
Theatre History Elective—complete one of the following:		3
TH 4510	Theatre History I	
TH 4520	Theatre History II	
<b>Writing in the Discipline Connection—complete one of the following:</b>		<b>3</b>
TH 2230	American Musical Theatre (DICO) (WRCO)	
TH 3930	American Drama (DICO) (WRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<i>Foreign Language</i> (GACO)		8
<i>Electives</i>		32–30
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

The subjects covered in Topics courses vary from semester to semester. Course may be repeated as long as topic covered is different.

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

#### DANCE MINOR 22 credits

The Dance program provides an introduction to dance as an art form as well as experience in movement. The curriculum offers dance technique, compositional courses, and performance experiences. Dance students develop artistry through the study of dance history and choreography and participation in the Contemporary Dance Ensemble.

Students who wish to audition for a Dance Talent Grant must schedule an audition by contacting the Director of Dance or the Department Chair.

Required:		Credits
Complete one of the following:		3
DN 2370	Dance Composition I	
DN 3320	Dance Composition II	
DN 3010	Contemporary Dance Ensemble (three enrollments)	3
DN 3020	History of Modern Dance and Technique	3
DN 3050	World Dance (GACO)	3
<i>Techniques—complete one course from each technique; choose appropriate level for each technique:</i>		
Modern Dance Technique:		2–3
DN 1260	Modern Dance I <i>and</i>	
DN 2260	Modern Dance II <i>or</i>	
DN 3270	Advanced Modern Dance	
Ballet Technique:		2–3
DN 1230	Ballet I <i>and</i>	
DN 2710	Ballet II <i>or</i>	
DN 3360	Advanced Ballet	
Jazz Dance Technique:		1
DN 1280	Jazz Dance I <i>or</i>	
DN 2670	Jazz Dance II	
<i>Electives:</i>		5–3
DN courses, not already taken for the minor, may be used as electives		
DN 2330	Movement Concepts for Elementary Education	
MUDI 1310	Exploring Music (PPDI)	
MU 1320	Introduction to Reading Music	
PE 3100	Movement Therapies	
TH 2600	Fundamentals of Costume Construction and Design	
TH 3160	Stage Movement	
TH 3300	Design for the Theatre (Topics): Lighting	

Completion of both the Dance Minor and the following courses (some of which can also count toward the Minor itself) also completes the **Dance Pedagogy** curriculum. This curriculum is based on the Curriculum Standards set forth in the National Dance Standards for Dance Education and the New Hampshire K–12 Dance Curriculum Framework. While completion of this curriculum does **not** lead to any specific teaching certification, the student who completes it will possess the requisite competencies to teach dance in a variety of settings.

		Credits
DN 2330	Movement Concepts for Elementary Education	1
DN 3100	Movement Concepts for Dance Education	3
DN 3270	Advanced Modern Dance	3
DN 3320	Dance Composition II	3
DN 3360	Advanced Ballet	3
DN 3500	Dance Pedagogy I	3
DN 4010	Dance Practicum	1–3
DN 4500	Dance Pedagogy II	3

In addition, students may choose an Interdisciplinary Studies major to combine coursework in Dance with another area or areas.



**MUSIC MINOR****21 credits**

Any student at Plymouth State University may consider the Music minor program offered in the Department of Music, Theatre, and Dance. To be accepted as a Music minor a student must meet with the Department Chair and must perform an audition on the preferred instrument or voice. Music minors are required to attend 50 percent of the Department of Music, Theatre, and Dance afternoon Student Recitals as well as the Department of Music, Theatre, and Dance Fall Convocation. They also must attend three additional professional level events each semester. Performance in a student recital once a year is encouraged.

	Credits
Performance Studies:	5
• In only one area: Woodwind, Brass, Percussion, Voice, Guitar, Piano, Harpsichord, Organ	
• Five semesters, with at least two semesters at 2000 level	
• Successful performance of a 20-minute final Jury Exam	
Ensembles	3
MU 1150 Piano Class I	1
MU 1160 Piano Class II	1
MU 1210 Musicianship I	4
MU 1220 Musicianship II	4
Complete one of the following:	3
MUDI 1310 Exploring Music (PPDI)	
MU 3310 History and Literature of Music I	
MU 3320 History and Literature of Music II (INCO)	

Students should see the *Music Student Handbook* (available in the Department office) for detailed descriptions of Performance Studies and Jury Exam requirements for each instrument. Jury Exams are performed at the end of each regular semester, and advancement to higher levels of Performance Studies is dependent upon a successful level-change Jury.

Students whose Performance Studies area is keyboard will substitute two credit hours of Music (ME/MU) electives for MU 1150 and MU 1160. MU 1160 requires a minimum grade of C in MU 1150. MU 1220 requires a minimum grade of C in MU 1210.

**THEATRE MINOR****19 credits**

Any student at Plymouth State University may consider a Theatre minor offered in the Department of Music, Theatre, and Dance. Before being accepted as a Theatre minor, a student should meet with the Department Chair or the Director of Theatre.

	Credits
TH 1600 Introduction to Theatre	3
TH 2500 Stagecraft Fundamentals	3
TH 2720 Acting I	3
Complete two of the following:	6
TH 2230 American Musical Theatre (DICO)	
TH 2960 World Drama	
TH 3400 Stage Management	
TH 3410 Dramatic Literature and Criticism (Topics)	
TH 3900 Acting II	
TH 3930 American Drama (DICO)	
TH 4510 Theatre History I	
TH 4520 Theatre History II	
Production Requirement:	4
Four semesters of Practicum in Production and/or Advanced Practicum in Production (one credit per semester)	

**Department of Philosophy****Department of Philosophy**, Hyde Hall

Chair: David F. Haight

Professor: Raymond Perkins Jr.

**PHILOSOPHY, Bachelor of Arts****120 credits**

The BA in Philosophy provides students with a background in philosophical ideas, supplemented with strong training in a collateral area. General program requirements permit students to create programs that will prepare them for training in law, theology, planning and social service careers, or for further specialized training leading to teaching or research. Students planning to major in Philosophy should inform the Department as early as possible so that joint planning may produce a coherent program in the major field and in collateral areas.

**Degree Requirements****Credits**

PY 1010	Ultimate Questions (GACO)	3
PY 1120	Doing Right and Being Good (DICO)	3
PY 2310	Elements of Logic (QRCO)	3
PY 2650	Mind and Machine (TECO)	3
PY 4770	Great Philosophers Seminar (WRCO)	3

**Complete Set I or Set II:****Set I**

PY 3110	History of Philosophy I: Ancient (INCO)	3
PY 3120	History of Philosophy II: Modern (INCO)	3

**Complete one of the following:**

PY 3140	Medieval Philosophy	3
PY 3160	History of Philosophy III: Contemporary (INCO)	3
PY 3540	Philosophy of Religion (INCO)	3
PY	Philosophy electives [not PYDI]	6
PY 3000/4000 level	Philosophy electives [not PYDI]	6

**Set II**

PY 2200	Ideas of the Old Testament (GACO)	3
PY 2210	New Testament Thought (GACO)	3
PY 2290	Religion in America (DICO)	3
PY 2610	Eastern Philosophy	3
PY 3140	Medieval Philosophy	3
PY 3210	Comparing World Religions	3
PY 3390	Applied Ethics	3
PY 3540	Philosophy of Religion (INCO)	3

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		37–35
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).



### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PY 1010	Ultimate Questions (GACO)	3
PY 1120	Doing Right and Being Good (DICO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
	Foreign Language (GACO)	8
		32

Year Two		Credits
PY 2310	Elements of Logic (QRCO)	3
PY 2650	Mind and Machine (TECO)	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6

Year Three		Credits
PY 4770	Great Philosophers Seminar (WRCO)	3
WECO	Wellness Connection	3

Years Two, Three and Four		Credits
Complete Set I or Set II		24
Electives		37–35
<b>Total</b>		<b>120</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

PHILOSOPHY MINOR		15 credits
		Credits
PY 1010	Ultimate Questions (GACO)	3
PY 1120	Doing Right and Being Good (DICO)	3
PY 3000/4000 level Philosophy courses		6
Complete one of the following:		3
PYDI 1030	Thinking for Yourself (SSDI)	
PY 2310	Elements of Logic	

Neither PY 2000 nor PY 2010 may be used to meet Philosophy minor requirements.

RELIGIOUS STUDIES MINOR		15 credits
		Credits
PY 1120	Doing Right and Being Good (DICO)	3
PY 3210	Comparing World Religions	3
PY 3540	Philosophy of Religion (INCO)	3
Complete one of the following:		3
PY 2200	Ideas of the Old Testament (GACO)	
PY 2210	New Testament Thought (GACO)	
PY 2610	Eastern Philosophy	
Complete one of the following:		3
AH 3720	Medieval Art	
PY 2290	Religion in America (DICO)	

## Department of Psychology

**Department of Psychology**, Hyde Hall

*Chair:* Paul M. Fedorchak

*Professors:* Juanita V. Field, Douglas D. Fife, Joel D. Funk, Brian T. Healy, John W. Kulig, James J. McGarry, Wendy J. Palmquist, H. David Zehr

*Assistant Professor:* David S. McDougal

*Contract Faculty:* Thomas G. Frost

### Psychology Honors Program

The Psychology Honors Program allows students to develop an honors research project working with an individual faculty member. A faculty member will assist the student in the planning of the project, but the student takes responsibility for the design, data collection, data analysis and writing, and completion of the project. The honors project can assist students wishing to pursue graduate work in psychology or wishing to do advanced work not provided in regular course offerings. Along with letters of recommendation, solid grade point average and Graduate Record Examination scores, participating in research is an important criterion graduate schools use to select students.

*Criteria for admission to the program:*

- completion of 60 credit hours
- completion of PS 3140, Statistics in Psychology and PS 3150, Research Methods in Psychology
- a 3.25 cumulative grade point average
- support of a faculty sponsor
- submission of a completed Honors application to the Department of Psychology. The application includes a research proposal with a focused literature review, method section, and reference list, prepared according to APA standards.
- approval by the Department of Psychology after presentation of the proposed project at a Department colloquium, typically in December of the senior year.

*Criteria for completion of the program:*

- submission of a final paper, APA format, to the Department of Psychology by May 1st of the year Honors is sought
- presentation of the results of the project during the Department of Psychology annual Poster Session (May of every year)
- approval of the Department of Psychology

### PSYCHOLOGY, Bachelor of Arts

**120 credits**

The BA degree in Psychology emphasizes understanding of the science and study of behavior and mental processes.

Degree Requirements		Credits
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
PS 2100	Measuring Behavior (TECO)	3
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
PS 4010	History and Systems	3
PS	Psychology electives [not PSDI]	6
Group A—complete one of the following:		3
PS 3030	Social Psychology	
PS 3340	Personality	
Group B—complete two courses (PS 3210 or PS 3220 is required):		7 or 8
PS 3210	Learning	
PS 3220	Cognitive Psychology	
PS 3260	Perception	
PS 3600	Biological Psychology	
Capstone—complete one of the following:		3 or 6
PS 4360	Internship in Psychology	
PS 4400	Psychology Seminar	

PS 4800	Advanced Research Seminar in Psychology	
PS 4940	Independent Research in Psychology	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>33–31 or 29–27</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Direction	3
	Foreign Language (GACO)	8
		32
Year Two		Credits
PS 2100	Measuring Behavior (TECO)	3
PS	Psychology electives [not PSDI]	6
Group A—complete one course		3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	<u>2–0</u>
		29
Year Three		Credits
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
Group B—complete two courses (PS 3210 or PS 3220 is required)		7 or 8
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	<u>11 or 10</u>
		30
Year Four		Credits
PS 4010	History and Systems	3
Capstone—complete one course		3 or 6
INCO	Integration Connection	3
	Electives	<u>20 or 17</u>
		29
<b>Total</b>		<b>120</b>

**Complementary Courses:** It is recommended that BA Psychology majors take one year sequences in anthropology, biology, mathematics or sociology as well as CS 1100 and MA 2300 (MATH).

#### PSYCHOLOGY, Bachelor of Science 120 credits

The BS degree in Psychology allows students to focus on specific areas in the science and study of behavior and mental processes.

#### CONTRACT OPTION

Students must have a minimum of 45 credits remaining in their degree at the time their contract is approved by the Department of Psychology. Contract courses are chosen by the student and the advisor. Final approval of the contract is given by the Department.

#### Degree Requirements Credits

Courses required for the Option are shown in boldface.

PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
PS 2100	Measuring Behavior (TECO)	3
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
PS 4010	History and Systems	3
<b>PS</b>	<b>Contract courses [not PSDI]</b>	<b>9</b>
<b>PS</b>	<b>Psychology electives [not PSDI]</b>	<b>6</b>
<b>Group A—complete one of the following:</b>		<b>3</b>

PS 3030 Social Psychology

PS 3340 Personality

Group B—complete two courses (PS 3210 or PS 3220 is required): 7 or 8

PS 3210 Learning

PS 3220 Cognitive Psychology

PS 3260 Perception

PS 3600 Biological Psychology

Capstone—complete one of the following: 3 or 6

PS 4360 Internship in Psychology

PS 4400 Psychology Seminar

PS 4800 Advanced Research Seminar in Psychology

PS 4940 Independent Research in Psychology

#### General Education:

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>29–27 or 25–23</u>
<b>Total</b>		<b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
CTDI	Creative Thought Directions	6

PPDI	Past and Present Directions	6
GACO	Global Awareness Connection	3
		30
<b>Year Two</b>		<b>Credits</b>
PS 2100	Measuring Behavior (TECO)	3
<b>PS</b>	<b>Psychology electives [not PSDI]</b>	<b>6</b>
<b>Group A—complete one course</b>		<b>3</b>
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Electives	<u>6–4</u>
		30
<b>Year Three</b>		<b>Credits</b>
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
<b>PS</b>	<b>Contract courses [not PSDI]</b>	<b>9</b>
Group B—complete two courses (PS 3210 or PS 3220 is required)		7 or 8
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Elective	<u>2 or 1</u>
		30
<b>Year Four</b>		<b>Credits</b>
PS 4010	History and Systems	3
Capstone—complete one course		3 or 6
INCO	Integration Connection	3
	Electives	<u>21 or 18</u>
		30
<b>Total</b>		<b>120</b>
<b>Complementary Courses:</b> BIDI 1010 (SIDI), BIDI 1020 (SIDI), CS 1100, MA 2300 (MATH).		

#### DEVELOPMENTAL OPTION

<b>Degree Requirements</b>	<b>Credits</b>
Courses required for the Option are shown in boldface.	
PS 2010	Introduction to General Psychology 3
PS 2050	Life-Span Developmental Psychology 3
PS 2100	Measuring Behavior (TECO) 3
<b>PS 3100</b>	<b>Adolescent Psychology 3</b>
PS 3140	Statistics in Psychology (QRCO) 3
PS 3150	Research Methods in Psychology (WRCO) 3
<b>PS 3170</b>	<b>Child Development 3</b>
<b>PS 3280</b>	<b>Developmental Psychobiology 3</b>
<b>PS 3560</b>	<b>Adulthood and Aging 3</b>
PS 4010	History and Systems 3
<b>PS</b>	<b>Psychology electives [not PSDI] 11 or 8</b>
<b>Group A—complete one of the following:</b>	<b>3</b>
<b>PS 3030</b>	<b>Social Psychology</b>
<b>PS 3340</b>	<b>Personality</b>
Group B—complete two courses (PS 3210 or PS 3220 is required):	
PS 3210	Learning 7 or 8
PS 3220	Cognitive Psychology
PS 3260	Perception
PS 3600	Biological Psychology
Capstone—complete one of the following:	3 or 6
PS 4360	Internship in Psychology
PS 4400	Psychology Seminar
PS 4800	Advanced Research Seminar in Psychology
PS 4940	Independent Research in Psychology
<i>General Education:</i>	
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3

MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>21–19 or 20–18</u>
<b>Total</b>		<b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>	<b>Credits</b>
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3
MA	Mathematics Foundations 3
PS 2010	Introduction to General Psychology 3
PS 2050	Life-Span Developmental Psychology 3
CTDI	Creative Thought Directions 6
PPDI	Past and Present Directions 6
GACO	Global Awareness Connection 3
	30

<b>Year Two</b>	<b>Credits</b>
PS 2100	Measuring Behavior (TECO) 3
<b>PS 3100</b>	<b>Adolescent Psychology 3</b>
<b>PS 3170</b>	<b>Child Development 3</b>
<b>Group A—complete one course</b>	<b>3</b>
SIDI	Scientific Inquiry Directions 6–8
SSDI	Self and Society Directions 6
	Electives <u>7–5</u>
	31

<b>Year Three</b>	<b>Credits</b>
PS 3140	Statistics in Psychology (QRCO) 3
PS 3150	Research Methods in Psychology (WRCO) 3
<b>PS 3280</b>	<b>Developmental Psychobiology 3</b>
<b>PS 3560</b>	<b>Adulthood and Aging 3</b>
Group B—complete two courses (PS 3210 or PS 3220 is required)	
DICO	Diversity Connection 3
WECO	Wellness Connection 3
	Electives <u>5 or 4</u>
	30

<b>Year Four</b>	<b>Credits</b>
PS 4010	History and Systems 3
<b>PS</b>	<b>Psychology electives [not PSDI] 11 or 8</b>
Capstone—complete one course	3 or 6
INCO	Integration Connection 3
	Electives <u>9</u>
	29
<b>Total</b>	<b>120</b>

#### MENTAL HEALTH OPTION

<b>Degree Requirements</b>	<b>Credits</b>
Courses required for the Option are shown in boldface.	
PS 2010	Introduction to General Psychology 3
PS 2050	Life-Span Developmental Psychology 3
PS 2100	Measuring Behavior (TECO) 3
<b>PS 3030</b>	<b>Social Psychology 3</b>

PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
<b>PS 3340</b>	<b>Personality</b>	3
PS 4010	History and Systems	3
<b>PS 4320</b>	<b>Abnormal Psychology</b>	3
<b>PS 4330</b>	<b>Community Mental Health</b>	3
<b>PS 4350</b>	<b>Treatment of Psychological Disorders</b>	3
<b>PS 4440</b>	<b>Psychological Measurement</b>	3
<b>PS</b>	<b>Psychology elective [not PSDI]</b>	3
Group B—complete two courses (PS 3210 or PS 3220 is required):		7 or 8
PS 3210	Learning	
PS 3220	Cognitive Psychology	
PS 3260	Perception	
PS 3600	Biological Psychology	
Capstone—complete one of the following:		3 or 6
PS 4360	Internship in Psychology	
PS 4400	Psychology Seminar	
PS 4800	Advanced Research Seminar in Psychology	
PS 4940	Independent Research in Psychology	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
GACO	Global Awareness Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>26–24 or 22–20</u>
<b>Total</b>		<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
GACO	Global Awareness Connection	3
		30
Year Two		Credits
PS 2100	Measuring Behavior (TECO)	3
<b>PS 3030</b>	<b>Social Psychology</b>	3
<b>PS 3340</b>	<b>Personality</b>	3
<b>PS</b>	<b>Psychology elective [not PSDI]</b>	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Electives	<u>6–4</u>
		30
Year Three		Credits
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
<b>PS 4320</b>	<b>Abnormal Psychology</b>	3

<b>PS 4350</b>	<b>Treatment of Psychological Disorders</b>	3
Group B—complete two courses (PS 3210 or PS 3220 is required)		7 or 8
DICO	Diversity Connection	3
WECO	Wellness Connection	3
	Electives	<u>5 or 4</u>
		30
Year Four		Credits
PS 4010	History and Systems	3
<b>PS 4330</b>	<b>Community Mental Health</b>	3
<b>PS 4440</b>	<b>Psychological Measurement</b>	3
Capstone—complete one course		3 or 6
INCO	Integration Connection	3
	Electives	<u>15 or 12</u>
		30
<b>Total</b>		<b>120</b>

### PSYCHOLOGY AND LAW OPTION

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
PS 2100	Measuring Behavior (TECO)	3
<b>PS 3030</b>	<b>Social Psychology</b>	3
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
<b>PS 3340</b>	<b>Personality</b>	3
<b>PS 3700</b>	<b>Psychology and Law</b>	3
PS 4010	History and Systems	3
<b>PS 4320</b>	<b>Abnormal Psychology</b>	3
<b>PS</b>	<b>Psychology elective [not PSDI]</b>	3
Group B—complete two courses (PS 3210 or PS 3220 is required):		7 or 8
PS 3210	Learning	
PS 3220	Cognitive Psychology	
PS 3260	Perception	
PS 3600	Biological Psychology	
Group C Psychology electives—complete at least two of the following:		6
PS 3100	Adolescent Psychology	
<b>PS 4330</b>	<b>Community Mental Health</b>	
<b>PS 4440</b>	<b>Psychological Measurement</b>	
Capstone—complete one of the following:		3 or 6
PS 4360	Internship in Psychology	
PS 4400	Psychology Seminar	
PS 4800	Advanced Research Seminar in Psychology	
PS 4940	Independent Research in Psychology	
<b>SO 2220</b>	<b>Foundations of Sociology (DICO)</b>	3
Group D—complete one of the following:		3
AN 3170	Anthropology of Conflict and Law	
<b>SO 2380</b>	<b>Social Problems</b>	
Group E—complete one of the following:		3
<b>SO 3090</b>	<b>Criminology</b>	
<b>SO 3180</b>	<b>Sociology of Deviance (DICO)</b>	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
GACO	Global Awareness Connection	3

INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>20-18 or 16-14</u>
<b>Total</b>		<b>120</b>

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
<b>SO 2220</b>	<b>Foundations of Sociology (DICO)</b>	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	<u>6</u>
		<b>30</b>

Year Two		Credits
PS 2100	Measuring Behavior (TECO)	3
<b>PS 3030</b>	<b>Social Psychology</b>	3
PS 3340	Personality	3
<b>Group D elective—complete one course</b>		<b>3</b>
<b>Group E elective—complete one course</b>		<b>3</b>
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
	Elective	<u>3-1</u>
		<b>30</b>

Year Three		Credits
PS 3140	Statistics in Psychology (QRCO)	3
PS 3150	Research Methods in Psychology (WRCO)	3
Group B—complete two courses (PS 3210 or PS 3220 is required)		7 or 8
<b>PS 3700</b>	<b>Psychology and Law</b>	3
PS	Psychology elective [not PSDI]	3
<b>Group C Psychology electives—complete at least two courses</b>		<b>6</b>
GACO	Global Awareness Connection	3
Elective		<u>1 or 0</u>
		<b>29</b>

Year Four		Credits
PS 4010	History and Systems	3
<b>PS 4320</b>	<b>Abnormal Psychology</b>	3
Capstone—complete one course		3 or 6
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	<u>16 or 13</u>
		<b>31</b>
<b>Total</b>		<b>120</b>

**Complementary Courses:** BIDI 1010 (SIDI), BIDI 1020 (SIDI), CS 1100, MA 2300 (MATH).

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

CHILD DEVELOPMENT MINOR		16 credits
		Credits
PS 2010	Introduction to General Psychology	3
PS 3170	Child Development	3
PS 3280	Developmental Psychobiology	3
PS	any Psychology course	3
Complete one of the following:		4
PS 3210	Learning	
PS 3220	Cognitive Psychology	

PSYCHOLOGY MINOR		19 credits
		Credits
PS 2010	Introduction to General Psychology	3
PS 2050	Life-Span Developmental Psychology	3
PS	any Psychology course	3
Complete one of the following:		3
PS 3030	Social Psychology	
PS 3340	Personality	
Complete two of the following—one must be PS 3210 or PS 3220:		7
PS 3210	Learning	
PS 3220	Cognitive Psychology	
PS 3260	Perception	
PS 3600	Biological Psychology	

## Department of Social Science

Department of Social Science, Rounds Hall

Chair: Peng-Khuan Chong

Assistant Chair: Robert Heiner

Professors: Katherine C. Donahue, Michelle A. Fistek, Xiaoxiong Li,

Bryon D. Middlekauff, Mark J. Okrant, Kurt A. Schroeder,

Stacey G. H. Yap

Associate Professors: Marcia Schmidt Blaine, Robert G. Egbert Jr.,

Grace M. Fraser, John C. Krueckeberg, Patrick J. May, Sheryl L.

Shirley, David R. Starbuck

Assistant Professors: Brian W. Eisenhauer, Whitney B. Howarth,

Rebecca R. Noel, Filiz Otucu

### ANTHROPOLOGY/SOCIOLOGY, Bachelor of Arts degree 120 credits

Anthropology and Sociology are two of the social sciences that offer a most comprehensive study of human behavior. The underlying concept in both disciplines is that of sociocultural relativism, which is the understanding that human diversity and human problems must be examined in context. From this perspective, understanding ourselves and others becomes an attainable goal through the fascinating and intensive study of cultural and human evolution, contemporary America society, and world cultures. Through such study, students gain an awareness of important issues such as:

1. global ecology, third world cultures, and development
2. issues in ethnic identity, gender and race in the United States and abroad
3. American institutions and social issues such as social class and stratification.

A BA in Anthropology/Sociology assists students in developing a global perspective and as a result, prepares them not only for graduate studies, if that is an option, but also for careers in applied social sciences, consulting, business, government services (domestic or overseas), and community and third world development. Students are encouraged to explore fieldwork/internship opportunities as part of this preparation.

### ANTHROPOLOGY OPTION

#### Degree Requirements Credits

Courses required for the Option are shown in boldface.

AN 2210 Cultural Anthropology (GACO) 3

AN 4100 Methods of Social Research 3

AN 4600 Seminar: Theory and Practice (WRCO) 4

Group A—complete two of the following: 6

AN 2250 Introduction to Archaeology

AN 2290 Great Discoveries in Archaeology

AN 2300 Introduction to Physical Anthropology

SO 2380 Social Problems

Group B—complete one of the following: 3

AN 3110 Cultural Ecology

AN 3520 Economic Anthropology

Group C—complete one of the following: 3

AN 3170 Anthropology of Conflict and Law

AN 3900 Applied Anthropology

Group D—complete four of the following: 12

AN 3030 Ancient Egypt-Land of the Pharaohs

AN 3040 Mexican Pre-History

AN 3050 Peoples and Cultures of the Caribbean

AN 3190 Anthropology of the Pacific

AN 3200 Anthropology of Religion, Ritual, and Myth

AN 3210 Topics in Anthropology

AN 3220 Anthropology of Europe

AN 3260 Historical Archaeology

AN 3300 North American Prehistory

AN 3400 Anthropology of Sub-Saharan Africa

AN 3410	Natives of North America	
AN 3600	Bones, Bodies, and Disease	
SS 3620	Archaeological Field Methods: Prehistory	
SS 3630	Archaeological Field Methods: Historical	
SO 2220	Foundations of Sociology (DICO)	3
<b>Sociology Component—complete two of the following:</b>		<b>6</b>
SO 2400	White Collar Crime	
SO 3030	Social Psychology	
SO 3070	The Sociology of the Family	
SO 3080	Juvenile Delinquency	
SO 3090	Criminology	
SO 3100	Urban Sociology	
SO 3160	Women in World Development	
SO 3180	Sociology of Deviance (DICO)	
SO 3210	Topics in Sociology	
SO 3350	Sociology of Popular Culture	
SO 3370	Sociology of Race and Ethnicity	
SO 3380	Drugs and Society (INCO)	
SO 3390	Environment and Society (INCO)	
SO 3450	Social Stratification	
SO 4010	Advanced Theory in Criminology	
GE/PO	Related Social Science Area—Geography and/or Political Science elective [not GEDI/PODI]	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
Technology in the Discipline Connection—complete one of the following:		3
CS 1170	Computing Technology in Criminal Justice (TECO)	
GE 2090	Computer Mapping (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Foreign Language (GACO)</i>		8
<i>Electives</i>		<u>21–19</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

A minimum 2.20 grade point average is required in all AN and SO courses.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
AN 2210	Cultural Anthropology (GACO)	3



CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Foreign Language (GACO)	<u>8</u>
		32
<b>Year Two</b>		<b>Credits</b>
<b>Group A—complete two courses</b>		<b>6</b>
SO 2220	Foundations of Sociology (DICO)	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
TECO	Technology in the Discipline Connection	3
	Elective	<u>3–1</u>
		30

<b>Year Three</b>		<b>Credits</b>
AN 4410	Methods of Social Research	3
<b>Group B—complete one course</b>		<b>3</b>
<b>Group C—complete one course</b>		<b>3</b>
<b>Group D—complete four courses</b>		<b>12</b>
GE/PO Related Social Science Area—Geography and/or		
Political Science elective [not GEDI/PODI]		3
WECO	Wellness Connection	3
	Elective	3
		30

<b>Year Four</b>		<b>Credits</b>
AN 4600	Seminar: Theory and Practice (WRCO)	4
<b>Sociology Component—complete two courses</b>		<b>6</b>
INCO	Integration Connection	3
	Electives	<u>15</u>
		28
<b>Total</b>		<b>120</b>

#### SOCIOLOGY OPTION

##### Degree Requirements

Courses required for the Option are shown in boldface.

SO 2220	Foundations of Sociology (DICO)	3
SO 3450	<b>Social Stratification</b>	3
SO 4410	<b>Methods of Social Research</b>	3
SO 4600	<b>Seminar: Theory and Practice (WRCO)</b>	4
<b>Group A—complete four of the following:</b>		<b>12</b>
SO 2400	<b>White Collar Crime</b>	
SO 3030	<b>Social Psychology</b>	
SO 3070	<b>The Sociology of the Family</b>	
SO 3080	<b>Juvenile Delinquency</b>	
SO 3090	<b>Criminology</b>	
SO 3100	<b>Urban Sociology</b>	
SO 3160	<b>Women in World Development</b>	
SO 3180	<b>Sociology of Deviance (DICO)</b>	
SO 3210	<b>Topics in Sociology</b>	
SO 3350	<b>Sociology of Popular Culture</b>	
SO 3370	<b>Sociology of Race and Ethnicity</b>	
SO 3380	<b>Drugs and Society (INCO)</b>	
SO 3390	<b>Environment and Society (INCO)</b>	
SO 4010	<b>Advanced Theory in Criminology</b>	
AN 2210	Cultural Anthropology (GACO)	3
<b>Group B—complete one of the following:</b>		<b>3</b>
AN 2250	<b>Introduction to Archaeology</b>	
SO 2380	<b>Social Problems</b>	
<b>Anthropology Component—complete two of the following:</b>		<b>6</b>
AN 3030	<b>Ancient Egypt—Land of the Pharaohs</b>	
AN 3040	<b>Mexican Pre-History</b>	
AN 3050	<b>Peoples and Cultures of the Caribbean</b>	
AN 3110	<b>Cultural Ecology</b>	
AN 3170	<b>Anthropology of Conflict and Law</b>	
AN 3190	<b>Anthropology of the Pacific</b>	

AN 3200	<b>Anthropology of Religion, Ritual, and Myth</b>	
AN 3210	<b>Topics in Anthropology</b>	
AN 3220	<b>Anthropology of Europe</b>	
AN 3260	<b>Historical Archaeology</b>	
AN 3300	<b>North American Prehistory</b>	
AN 3400	<b>Anthropology of Sub-Saharan Africa</b>	
AN 3410	<b>Natives of North America</b>	
AN 3520	<b>Economic Anthropology</b>	
AN 3600	<b>Bones, Bodies, and Disease</b>	
AN 3900	<b>Applied Anthropology</b>	
SS 3620	<b>Archaeological Field Methods: Prehistory</b>	
SS 3630	<b>Archaeological Field Methods: Historical</b>	
GE/PO Related Social Science Area—Geography and/or		
Political Science elective [not GEDI/PODI]		3
Quantitative Reasoning in the Discipline Connection—		
complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
Technology in the Discipline Connection—		
complete one of the following:		3
CS 1170	Computing Technology in Criminal Justice (TECO)	
GE 2090	Computer Mapping (TECO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking	
	and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
<i>Electives</i>		<u>27–25</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

A minimum 2.20 grade point average is required in all AN and SO courses.

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking	
	and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SO 2220	Foundations of Sociology (DICO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
	Foreign Language (GACO)	<u>8</u>
		32
<b>Year Two</b>		<b>Credits</b>
AN 2210	Cultural Anthropology (GACO)	3
<b>Group B—complete one course</b>		<b>3</b>
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3

TECO	Technology in the Discipline Connection Elective	3 <u>6-4</u> 30
<b>Year Three</b>		<b>Credits</b>
SO 3450	Social Stratification	3
SO 4410	Methods of Social Research	3
<b>Group A—complete four courses</b>		<b>12</b>
GE/PO	Related Social Science Area—Geography and/or Political Science elective [not GEDI/PODI]	3
WECO	Wellness Connection Electives	3 <u>6</u> 30
<b>Year Four</b>		<b>Credits</b>
SO 4600	Seminar: Theory and Practice (WRCO)	4
<b>Anthropology Component—complete two courses</b>		<b>6</b>
INCO	Integration Connection Electives	3 <u>15</u> 28
<b>Total</b>		<b>120</b>

#### ENVIRONMENTAL PLANNING, Bachelor of Science 120 credits

The BS degree in Environmental Planning combines coursework in the social and natural sciences with business and other disciplines. The degree emphasizes study of New England but prepares students for work in any geographic area. It examines contemporary and future problems associated with development of the natural and built environs. The program prepares students for careers in planning and management at the community, regional or federal level. The Environmental Planning degree combines skills from the various disciplines that participate in the program. Students learn about the planning process as well as land use law and development; they obtain basic skills in the development of geographic information systems and computer cartography as well as the interpretation of aerial photographs and remote sensing data; and they learn to address historic and contemporary empirical environmental (both nature and human) issues. Additionally, they develop verbal and written communication skills. Student internships in environmental management agencies are an integral part of the program. Students need to earn a grade point average of 2.00 or higher in their major courses.

<b>Degree Requirements</b>		<b>Credits</b>
EPL 2100	Community Planning	3
EPL 3100	Environmental Planning	3
EPL 3960	Internship	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
BU 2290	Organizational Communications (WRCO)	3
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
GE 2090	Computer Mapping (TECO)	3
GE 3030	Urban Geography	3
GE 3270	Introduction to Geographic Information Systems	3
PO 2010	State and Local Government	4
PO 2020	Public Administration (DICO)	3
TMP 2750	Introduction to Travel and Tourism (GACO)	3
Supporting Courses—complete five of the following, at least 12 credits must be taken at the 3000/4000 level:		<b>15-16</b>
AN 4410	Methods of Social Research	
BU 3560	Land Use Law and Development	
EC 2000	Survey of Modern Economics	
GE 3260	The Physical Geography of the National Parks	
GE 3300	Introduction to Hydrology	
GE 3310	Landform Analysis	
GE 3350	Introduction to Airphoto Interpretation and Remote Sensing	
GE 4270	Advanced Geographic Information Systems	
GE 4280	GIS Applications: Computer Mapping	

SO 3100	Urban Sociology	
SO 3390	Environment and Society (INCO)	
SO 4410	Methods of Social Research	
Capstone course—complete one of the following:		<b>3-4</b>
EPL 4990	Advanced Planning	
SS 4994	Community Research Experience	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		<b>3</b>
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
<b>General Education:</b>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
WECO	Wellness Connection	3
<b>Electives</b>		<u>22-18</u> <b>120</b>

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
GE 2090	Computer Mapping (TECO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		<u>30</u>

<b>Year Two</b>		<b>Credits</b>
EPL 2100	Community Planning	3
BU 2290	Organizational Communications (WRCO)	3
PO 2010	State and Local Government	4
TMP 2750	Introduction to Travel and Tourism (GACO)	3
SIDI	Scientific Inquiry Directions	6-8
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning in the Discipline Connection	3
Elective		<u>2-0</u> 30

<b>Year Three</b>		<b>Credits</b>
EPL 3100	Environmental Planning	3
GE 3030	Urban Geography	3
GE 3270	Introduction to Geographic Information Systems	3
PO 2020	Public Administration (DICO)	3
Supporting Courses—complete five courses		<b>15-16</b>
Electives		<u>3-2</u> 30

<b>Year Four</b>		<b>Credits</b>
EPL 3960	Internship	4
BI 3240	Conservation (DICO) (GACO) (INCO)	3
Capstone course		<b>3-4</b>
WECO	Wellness Connection	3
Electives		<u>17-16</u> 30
<b>Total</b>		<b>120</b>

**GEOGRAPHY, Bachelor of Science****120 credits**

The Geography program at Plymouth State University prepares students for careers in geographic information systems, computerized cartography, environmental planning and consulting, education, the military or foreign service, or for advanced work at the graduate level. Geography bridges the natural and human worlds, focusing on interrelationships between physical and cultural landscapes. It is the study of the way that people interact with their environment; it applies analytic techniques to the solution of ecological, economic, and social problems. Geography majors learn to evaluate landforming processes, to perform spatial analysis, to employ field-based research techniques, to interpret maps, aerial photographs and remotely sensed images, to understand foreign regions, and to design and implement geographic information systems and to produce computer generated maps.

**Degree Requirements****Credits**

GE 2001	Physical Geography	3
GE 2002	Human Geography	3
GE 2090	Computer Mapping (TECO)	3
GE 3270	Introduction to Geographic Information Systems	3
Human Geography (Group 1)—complete two of the following:		6
GE 3030	Urban Geography	
GE 3640	The United States	
GE 4120	Topics in Human Geography	
TMP 2750	Introduction to Travel and Tourism (GACO)	
Physical Geography (Group 2)—complete two of the following:		6–8
BI 3240	Conservation (DICO) (GACO) (INCO)	
ES 2100	Physical Geology <i>and</i>	
ES 2110	Physical Geology Laboratory	
GE 3260	The Physical Geography of National Parks	
GE 3300	Introduction to Hydrology	
GE 3310	Landform Analysis	
GE 4130	Topics in Physical Geography	
MT 2110	Introduction to Meteorology <i>and</i>	
MT 2230	Introduction to Meteorological Analysis	
MT 2800	Climatology (GACO)	
Regional Geography (Group 3)—complete one of the following:		3
GE 3630	Historical Geography of Europe (GACO) (WRCO)	
GE 4110	Topics in Regional Geography (GACO) (WRCO)	
Techniques (Group 4)—complete two of the following:		6–7
CS 1100	Introduction to Computers	
EN 3090	Technical Communication	
EPL 2100	Community Planning	
EPL 3100	Environmental Planning	
GE 3350	Introduction to Airphoto Interpretation and Remote Sensing	
GE 4140	Topics in Geographic Techniques	
GE 4270	Advanced Geographic Information Systems	
GE 4280	GIS Applications: Computer Mapping	
Geography Major Electives—complete five 3000/4000 level courses:		15
Any course from Groups 1–4 not used to meet the Group requirements		
GE 3960	Internship (maximum of three credits)	
GE 4150	Topics in Geography	
GE 4910	Independent Study	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6

SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
<i>Electives</i>		<u>27–22</u>
<b>Total</b>		<b>120</b>

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

**Year One****Credits**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
GE 2090	Computer Mapping (TECO)	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	<u>6</u>
		30

**Year Two****Credits**

GE 3270	Introduction to Geographic Information Systems	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
DICO	Diversity Connection	3
QRCO	Quantitative Reasoning in the Discipline Connection	3
<i>Electives</i>		<u>9–7</u>
		30

**Year Three****Credits**

Human Geography (Group 1)—complete two courses		6
Physical Geography (Group 2)—complete two courses		6–8
Regional Geography (Group 3)—complete one course		3
Techniques (Group 4)—complete two courses		6–7
WECO	Wellness Connection	3
<i>Electives</i>		<u>6–3</u>
		30

**Year Four****Credits**

Geography Major Electives—complete five 3000/4000 level courses		15
INCO	Integration Connection	3
<i>Electives</i>		<u>12</u>
		30
<b>Total</b>		<b>120</b>

**HISTORY, Bachelor of Arts****120 credits**

People study history for many reasons: for the shock of finding familiar behavior across wide reaches of time and culture; for the puzzle of trying to understand practices alien to their own; for the challenge of mastering information about human life in the past and for the insight necessary to handle contemporary concerns. Studying history provides an imaginative, intellectual, and empathic experience similar to travel. The “destinations” may at first appear to stand still—colonial New Hampshire, colonial India, revolutionary France, Imperial China, the American Civil War or the Great Depression—but the more deeply students investigate them, the more complex and fascinating they become. The study of history can extend across any area or artifact of past human endeavor, from policies to parades, from ballads to battles, from the whaling industry to whalebone corsets. In doing so, history provides the foundation for an excellent liberal arts education. This liberal arts education is a proven “training ground” for careers in diverse fields such as (but not limited to): law, journalism, state/federal government employment, business, and industry.

The History major gives students the valuable skills and methods of inquiry, analysis, and synthesis that help them think like a historian. The study of the past will sharpen students' critical thinking abilities, provide for a well-rounded liberal arts education, and cultivate a lifelong love of learning. Through thematic and geographically framed courses, students examine the factual and interpretive contours of the field, while connecting the discipline to other areas of academic study and everyday life. Our program is particularly strong in United States, global, and women's histories. Upper-level courses are rotated in order to maximize the student's chance to learn about a wide variety of subjects. The History major fosters proficiencies and skills needed for graduate study in many fields.

Degree Requirements		Credits
HI 2000 level History courses [not HIDI]		6–9
HI 3000/4000 level History courses (any area), including Writing in the Discipline Connection (WRCO) [not HIDI]		12–9
HI United States Group History courses		6
HI World Group History courses		6
HI 4444 History Capstone Seminar		3
Humanities Supporting Courses (may be in same discipline)*:		6
AH Art History [not AHDI]		
CM Communication and Media Studies [not CMDI]		
EN English (not EN 1200) [not ENDI]		
PY Philosophy [not PYDI]		
Any 3000/4000 level foreign language		
Social Science Supporting Courses (may be in same discipline)*:		6
AN Anthropology [not ANDI]		
EC Economics [not ECDI]		
EPL Environmental Planning [not EPLDI]		
GE Geography [not GEDI]		
LL 2000 Introduction to Language and Linguistics		
LL 3100 The History and Structure of the English Language		
LL 3300 Foundations of Multilingual Multicultural Studies (DICO)		
LL 4910 Independent Study		
PO Political Science [not PODI]		
SO Sociology [not SODI]		
SS Social Science [not SSDI]		
TMP Tourism Management and Policy [not TMPDI]		
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
CJ 2350 Statistics for Criminal Justice (QRCO)		
LL 2000 Introduction to Language and Linguistics (QRCO)		
MA 1500 Mathematics and the Humanities (QRCO)		
MA 1900 Statistical Literacy in Today's Society (QRCO)		
MA 2300 Statistics I (QRCO)		
MA 2350 Statistics for Criminal Justice (QRCO)		
SS 3700 Social Statistics (QRCO)		
Technology in the Discipline Connection—complete one of the following:		3
CS 1100 Introduction to Computers (TECO)		
GE 2090 Computer Mapping (TECO)		
HI 4358 Public History and Local History Methods (TECO)		
PO 3120 Political Parties, Elections, and Interest Groups (TECO)		
PY 2650 Mind and Machine (TECO)		
<b>General Education:</b>		
EN 1200 Composition		3
IS 1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry		3
MA Mathematics Foundations		3
CTDI Creative Thought Directions		6
PPDI Past and Present Directions		6
SIDI Scientific Inquiry Directions		6–8
SSDI Self and Society Directions		6
DICO Diversity Connection (may be HI course)		3

INCO	Integration Connection (may be HI course)	3
WECO	Wellness Connection (may be HI course)	3
Foreign Language (GACO)		8
Electives		19–17
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

\* One course from these groups must be taken at the 3000/4000 level.

## History Group Courses

### United States Group

HI 3115	Early American Society to 1776 (DICO) (WRCO)
HI 3116	Revolutionary America, 1763–1815
HI 3140	Antebellum America, 1815–1860 (DICO) (INCO)
HI 3150	American Civil War and Reconstruction (WRCO)
HI 3330	New Hampshire and New England Historical Sites (WRCO)
HI 3340	New Hampshire and New England History (WRCO)
HI 3350	American Women's History (DICO)
HI 3352	African-American History (DICO)
HI 3354	Health and Illness in American History (WECO)
HI 3356	American Ideas (INCO)
HI 3520	The Great Depression in Film, Print, and on Stage (DICO) (INCO) (WRCO)
HI 3530	US Home Fronts: The 1940s and 1950s (DICO) (WRCO)
HI 3540	Recent Times: The United States, 1960–2000 (DICO)
HI 3560	Gilded Ages? The United States: 1873–1929 (DICO)
HI 3810	Topics in History
HI 4358	Public History and Local History Methods (TECO)

### World Group

HI 3455	Early Modern England (GACO) (WRCO)
HI 3460	The British Empire in World History (GACO)
HI 3480	The French Revolution and Napoleonic Era, 1789–1815 (GACO)
HI 3500	Europe in the 20th Century (GACO)
HI 3720	Modern Germany
HI 3730	Modern History of East Asia (GACO)
HI 3740	History of Japan (GACO)
HI 3750	History of Modern China (GACO)
HI 3760	History of Southeast Asia (GACO)
HI 3765	India and the World (GACO) (INCO)
HI 3820	Topics in History (GACO)
HI 3826	Sex and Empire in Colonial India (GACO) (WRCO)
HI 3828	Women and Global Colonialism (GACO)

## Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
HI 2000 level History courses [not HIDI]		6
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SSDI	Self and Society Direction	3
	Foreign Language (GACO)	8
		32

Year Two		Credits
HI 2000 level History courses [not HIDI]		0–3
CTDI	Creative Thought Direction	3
PPDI	Past and Present Direction	3
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Direction	3
DICO	Diversity Connection (may be HI course)	3
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Electives	7–28

Years Three and Four		Credits
HI	United States Group History courses	6
HI	World Group History courses	6
HI 3000/4000 level History courses (any area), including Writing in the Discipline Connection (WRCO) [not HIDI]		12–9
HI 4444	History Capstone Seminar	3
Humanities Supporting Courses—complete six credits*		6
Social Science Supporting Courses—complete six credits*		6
INCO	Integration Connection (may be HI course)	3
TECO	Technology in the Discipline Connection	3
WECO	Wellness Connection (may be HI course)	3
	Electives	12–15
<b>Total</b>		<b>120</b>

\* One course from these groups must be taken at the 3000/4000 level.

#### History Practicums

HI 4500	History Thesis
HI 4510	History Thesis
HI 4910	Independent Study

**The History Thesis:** For majors who wish to engage in more extensive research projects, there is an optional History Thesis that involves the writing of a thesis in history. It is open, by invitation or application, to those interested in and capable of doing the work involved. Students are either invited by the History Faculty to participate or may request admission. All applications are evaluated by the History Faculty. Selection is based on a combination of the individual's academic standing as a History major and recommendations from the History Faculty. Under normal circumstances those students applying must have a grade point average of 3.00 or higher in the major. The History Thesis is for History majors only unless the History Faculty decides to make exceptions for non-History majors. All decisions are made by the History Faculty and the program is under control of that Faculty.

The History Thesis can last one academic year and those successfully completing it receive six credits. At the end of the first semester a formal evaluation is made of each student. Those not doing satisfactory work are dropped, thereby receiving only three credits. Students are expected to complete a thesis of scholarly merit and one that meets the standards of good organization and writing style.

The History Thesis is primarily intended for those who plan to do advanced study or graduate work after graduating from Plymouth State University. Students seeking information about the Thesis should see the Coordinator of the program.

**Independent Studies:** Students may propose to undertake an independent study project with a particular instructor, who has to approve and supervise it. The final format for the course will be determined by the instructor, but typically requires extensive reading and writing.

**POLITICAL SCIENCE, Bachelor of Arts** **122 credits**

The BA program in Political Science provides the opportunity to pursue the problem of community order within the broad scope of liberal arts. Political scientists inquire how government can best fulfill the diverse needs of humanity as individuals, as well as in various groups. The study of politics deals with the ways in which humanity shares and distributes such fundamental values as security and prosperity and seeks self-determination. In the tradition of the liberal arts, this program prepares students to make sound decisions and creates a foundation for lifetime intellectual and spiritual growth. This includes such specific skills as the collection and evaluation of valid data, the systematic analysis of problems, and the clarification of values.

Degree Requirements		Credits
PO 1010	Politics and Government	3
PO 1020	American Government	3
PO 1030	World Politics (GACO)	3
PO 2010	State and Local Government	4
PO 2020	Public Administration (DICO)	3
PO 3120	Political Parties, Elections, and Interest Groups (TECO)	3
PO 3510	Comparative Politics	3
PO 3650	American Foreign Policy	3
PO 3660	Political Analysis	3
PO	Political Science electives [not PODI]	15
Group A—complete one of the following:		3
PO 3100	American Political Thought	
PO 3810	Political Thought	
AN/EC/HI/SO Elective [not ANDI/ECDI/HIDI/SODI]		3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
Writing in the Discipline Connection—complete one of the following:		3
PO 3300	Latin American Politics (GACO) (WRCO)	
PO 3680	Public Policy Analysis (WRCO)	
General Education:		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		20–18
<b>Total</b>		<b>122</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

A 2.50 grade point average is required in PO courses taken for the degree.



**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PO 1010	Politics and Government	3
PO 1020	American Government	3
PO 1030	World Politics (GACO)	3
CTDI	Creative Thought Directions	6
	Foreign Language (GACO)	8
		32
<b>Year Two</b>		<b>Credits</b>
PO 2010	State and Local Government	4
PO 2020	Public Administration (DICO)	3
AN/EC/HI/SO Elective [not ANDI/ECDI/HIDI/SODI]		3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
	Elective	3–1
		31
<b>Year Three</b>		<b>Credits</b>
PO 3120	Political Parties, Elections, and Interest Groups (TECO)	3
PO 3510	Comparative Politics	3
PO 3650	American Foreign Policy	3
PO	Political Science electives [not PODI]	6
Group A—complete one course		3
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Electives	9
		30
<b>Year Four</b>		<b>Credits</b>
PO 3660	Political Analysis	3
PO	Political Science electives [not PODI]	9
INCO	Integration Connection	3
WECO	Wellness Connection	3
WRCO	Writing in the Disciplines Connection	3
	Electives	8
		29
<b>Total</b>		<b>122</b>

**PUBLIC MANAGEMENT, Bachelor of Science 122 credits**

The study of politics deals with the ways in which humanity shares and distributes such fundamental values as security and prosperity and seeks self-determination. The Public Management degree combines the study of politics and government with selected courses in business and economics. The program is designed to provide access to jobs in the many activities of modern society in which the public interest and the private domain overlap and coincide. Many students are discovering that public management, applied political science, offers an essential dimension to understanding one's ongoing struggle with others and oneself. Employment possibilities for those with public management training include opportunities with private enterprise and numerous jobs with local, municipal, county, regional, state, federal, and inter-national agencies. The Public Management program also provides preparation for graduate study in public administration and prospective employment in town, city, and county management.

**Degree Requirements**

		<b>Credits</b>
PO 1010	Politics and Government	3
PO 1020	American Government	3
PO 2010	State and Local Government	4
PO 2020	Public Administration (DICO)	3
PO 3650	American Foreign Policy	3
PO 3680	Public Policy Analysis (WRCO)	3
PO 4010	Political Science Internship	3
PO 3000/4000 level Political Science electives [not PODI]		6
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
SO 2220	Foundations of Sociology (DICO)	3
Group A—complete three of the following:		9
BU 2480	Business Law	
BU 3180	Human Resource Management	
BU 3220	Business and the Environment	
BU 3560	Land Use Law and Development	
CM 2400	Public Speaking	
EC 3600	Public Finance	
EPL 2100	Community Planning	
PO 3240	International Political Economy	
PO 3350	Women in World Politics	
SO 2380	Social Problems	
SO 3090	Criminology	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
Technology in the Discipline Connection—complete one of the following:		3
GE 2090	Computer Mapping (TECO)	
PO 3120	Political Parties, Elections, and Interest Groups (TECO)	
Writing in the Discipline Connection—complete one of the following:		3
BU 2290	Organizational Communications (WRCO)	
PO 3300	Latin American Politics (GACO) (WRCO)	
PO 3680	Public Policy Analysis (WRCO)	
<b>General Education:</b>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
<b>Electives</b>		<b>20–18</b>
<b>Total</b>		<b>122</b>

If the Internship is unavailable, the credits are satisfied with a 3000/4000 level PO elective. Public Management majors may **not** declare the Business Administration or Political Science minor. A 2.50 grade point average is required in all major courses.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*



Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
PO 1010	Politics and Government	3
PO 1020	American Government	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SSDI	Self and Society Direction	3
		30
Year Two		Credits
PO 2010	State and Local Government	4
PO 2020	Public Administration (DICO)	3
BU 1150	Financial Accounting	4
BU 2260	Management Accounting	4
EC 2550	Macroeconomics (GACO)	3
EC 2560	Microeconomics	3
SO 2220	Foundations of Sociology (DICO)	3
SSDI	Self and Society Direction	3
QRCO	Quantitative Reasoning in the Discipline Connection	3
		30
Year Three		Credits
PO 3650	American Foreign Policy	3
PO 3680	Public Policy Analysis (WRCO)	3
Group A—complete three courses		9
SIDI	Scientific Inquiry Directions	6–8
TECO	Technology in the Discipline Connection	3
	Electives	8–6
		32
Year Four		Credits
PO 4010	Political Science Internship	3
PO 3000/4000 level Political Science electives [not PODI]		6
INCO	Integration Connection	3
WECO	Wellness Connection	3
WRCO	Writing in the Discipline Connection	3
	Electives	12
		30
<b>Total</b>		<b>122</b>

**SOCIAL SCIENCE, Bachelor of Science****122 credits**

The BS degree in Social Science provides students with the opportunity to study the diversity of the human experience from the perspectives of the various social science disciplines. The curriculum structure exposes students to the basic content and approach of each of the disciplines within the Department of Social Science (Anthropology, Environmental Planning, Geography, History, Political Science, and Sociology), while also allowing students the flexibility to pursue specific areas of interest. Students may choose one of the two following options: Contract Option or Social Studies Teacher Certification (5–12) Option. The two options share 28 credits in core requirements.

**CONTRACT OPTION**

The Contract Option allows students to work with their academic advisor to create a program specific to their professional goals and interests. This interdisciplinary program provides students with valuable skills of research, writing, and decision making, utilizing the perspectives and methodologies of the various social sciences. The program provides a basic background for future graduate work in any of the social sciences and a well-rounded liberal education for future careers in business, non-profit agencies, government, and other similar areas.

**Degree Requirements****Credits**

Courses required for the Option are shown in boldface.

GE 2001	Physical Geography	3
GE 2002	Human Geography	3
HI 2010	World History Since 1500 (GACO)	3
HI 2020	Survey Themes in United States History	3
PO 1020	American Government	3
Group A—complete one of the following:		3

AN 2210	Cultural Anthropology (GACO)
SO 2220	Foundations of Sociology (DICO)*
SO 2380	Social Problems

Group B—complete one of the following:	3
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EC 2000	Survey of Modern Economics
EC 2550	Macroeconomics (GACO)
EC 2560	Microeconomics

Group C—complete one of the following:	3 or 4
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PO 1030	World Politics (GACO)
PO 2010	State and Local Government

**Concentration Disciplines—complete nine credits of 3000/4000 level courses in EACH of two of the following disciplines, including the Writing in the Discipline Connection (WRCO)\*\*:**

AN	Anthropology [not ANDI]
GE	Geography [not GEDI]
HI	History [not HIDI]
PO	Political Science [not PODI]
SO	Sociology [not SODI]

**Social Science Electives—complete a minimum of six additional credits in any 3000/4000 level course in the following disciplines, including the Diversity Connection (DICO)\*:**

AN	Anthropology [not ANDI]
GE	Geography [not GEDI]
HI	History [not HIDI]
PO	Political Science [not PODI]
SO	Sociology [not SODI]
SS	Social Science [not SSDI]

Quantitative Reasoning Connection—complete one of the following:

MA 2300	Statistics I (QRCO)
SS 3700	Social Statistics (QRCO)

Technology in the Discipline Connection—complete one of the following:

ED 3350	Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)
GE 2090	Computer Mapping (TECO)
HI 4358	Public History and Local History Methods (TECO)

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
Electives		29 or 26
<b>Total</b>		<b>122</b>

\* If SO 2220 is not taken to satisfy Group A, then the Diversity Connection must be completed in the Social Science Electives.

\*\* Writing in the Discipline Connection must be completed in a Concentration discipline.

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
HI 2010	World History Since 1500 (GACO)	3
HI 2020	Survey Themes in United States History	3
PO 1020	American Government	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
		30
Year Two		Credits
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
Group A—complete one course*		3
Group B—complete one course		3
Group C—complete one course		3 or 4
SSDI	Self and Society Directions	6
QRCO	Quantitative Reasoning Connection	3
WECO	Wellness Connection	3
	Elective	5 or 4
		32
Year Three		Credits
Concentration Disciplines—complete nine credits of 3000/4000 level courses in each of two Social Science disciplines, including WRCO**		18
SIDI	Scientific Inquiry Directions	6–8
	Electives	6–4
		30
Year Four		Credits
Social Science Electives—complete a minimum of six additional credits in any 3000/4000 level course in the Social Science disciplines, including DICO*		6
INCO	Integration Connection	3
TECO	Technology in the Discipline Connection	3
	Electives	18
		30
<b>Total</b>		<b>122</b>

\* If SO 2220 is not taken to satisfy Group A, then the Diversity Connection must be completed in the Social Science Electives.

\*\* Writing in the Discipline Connection must be completed in a Concentration discipline.

**SOCIAL STUDIES TEACHER CERTIFICATION (5–12) OPTION**

This program leads to certification to teach social studies in grades 5 through 12. Because the prospective social studies teacher must be proficient in a number of disciplines, the Social Studies Teacher Certification Option curriculum requires a depth of understanding from a broad panorama of social and cultural experience. The course work is specifically designed to address those competencies outlined by state and national curriculum standards.

This program is certified at both the state and national level by the New Hampshire Department of Education and the National Council for the Accreditation of Teacher Education (NCATE). Graduates who complete this Teacher Certification Option are eligible for 5–12 teacher certification in the state of New Hampshire. Because of New Hampshire's membership in the Interstate Certification Contract, Plymouth gradu-

ates are eligible to earn a certificate or license in another Contract state upon application to that state's department of education. For further information, please see the Teacher Education and Clinical Experiences section.

A minimum 2.50 cumulative grade point average is required to student teach. In addition, students must have a 2.50 cumulative grade point average in the social science component of this program in order to graduate.

**Degree Requirements**

Courses required for the Option are shown in boldface.

		Credits
<b>CD 3000</b>	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3
<b>EC 3000/4000 level</b>	<b>Economics elective [not ECDI]</b>	3
<b>ED 2000</b>	<b>Introduction to Education</b>	3
<b>ED 3350</b>	<b>Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)</b>	3
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
HI 2010	World History Since 1500 (GACO)	3
HI 2020	Survey Themes in United States History	3
<b>HI 3000/4000 level</b>	<b>course if Concentration is not History [not HIDI]</b>	3–0
PO 1020	American Government	3
<b>PS 3190</b>	<b>Development and Understanding (WECO)</b>	3
<b>SE 3090</b>	<b>Introduction to Special Education: Middle and Secondary</b>	3
<b>SS 2500</b>	<b>Social Studies Methods: 5–12</b>	3
<b>SS 4350</b>	<b>Social Studies Theory and Practice: 5–12</b>	3
<b>SS 4850</b>	<b>Social Studies Student Teaching: 5–12</b>	12
Group A—complete one of the following:		3
AN 2210	Cultural Anthropology (GACO)	
SO 2220	Foundations of Sociology (DICO)*	
SO 2380	Social Problems	
Group B—complete one of the following:		3
EC 2000	Survey of Modern Economics	
EC 2550	Macroeconomics (GACO)	
EC 2560	Microeconomics	
Group C—complete one of the following:		3 or 4
PO 1030	World Politics (GACO)	
PO 2010	State and Local Government	
<b>Concentration Disciplines—complete 12 credits of 3000/4000 level courses in ONE of the following disciplines, including the Writing in the Discipline Connection (WRCO):</b>		<b>12</b>
<b>AN</b>	<b>Anthropology [not ANDI]</b>	
<b>GE</b>	<b>Geography [not GEDI]</b>	
<b>HI</b>	<b>History [not HIDI]</b>	
<b>PO</b>	<b>Political Science [not PODI]</b>	
<b>SO</b>	<b>Sociology [not SODI]</b>	
<b>Social Science Electives—complete 6–9 credits of 3000/4000 level courses in the following disciplines, including the Diversity Connection (DICO)*:</b>		<b>6–9</b>
<b>AN</b>	<b>Anthropology [not ANDI]</b>	
<b>GE</b>	<b>Geography [not GEDI]</b>	
<b>HI</b>	<b>History [not HIDI]</b>	
<b>PO</b>	<b>Political Science [not PODI]</b>	
<b>SO</b>	<b>Sociology [not SODI]</b>	
Quantitative Reasoning Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
<b>General Education:</b>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3

MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
<i>Elective</i>		<u>5–2</u>
<b>Total</b>		<b>122</b>

\* If SO 2220 is not taken to satisfy Group A, then the Diversity Connection must be completed in the Social Science Electives.

Student Teaching requires a minimum cumulative grade point average of 2.50. Student must have a 2.50 cumulative grade point average in the social science component of this program in order to graduate.

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course scheduled. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
HI 2010	World History Since 1500 (GACO)	3
HI 2020	Survey Themes in United States History	3
PO 1020	American Government	3
ED 2000	<b>Introduction to Education</b>	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	<u>6</u>
		<b>33</b>

Year Two		Credits
SS 2500	<b>Social Studies Methods: 5–12</b>	3
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
Group A—complete one course*		3
Group B—complete one course		3
Group C—complete one course		3 or 4
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
	<i>Elective</i>	<u>5–2</u>
		<b>32</b>

Year Three		Credits
<b>Concentration Disciplines—complete 12 credits of 3000/4000 level courses in ONE Social Science discipline, including the Writing in the Discipline Connection (WRCO)</b>		<b>12</b>
<b>HI 3000/4000 level course if Concentration is not History [not HIDI]</b>		<b>3–0</b>
<b>Social Science Electives—complete 6–9 credits of 3000/4000 level courses in the Social Science disciplines, including the Diversity Connection (DICO)*:</b>		<b>6–9</b>
CD 3000	<b>Philosophical and Historical Perspectives on the Child in Society (INCO) (WRCO)</b>	3
EC 3000/4000 level Economics elective [not ECDI]		3
SE 3090	<b>Introduction to Special Education: Middle and Secondary</b>	3
		<b>30</b>

Year Four		Credits
ED 3350	<b>Classroom Planning, Management, and Organization for Middle School and Secondary Educators (TECO)</b>	3
PS 3190	<b>Development and Understanding (WECO)</b>	3
SS 4350	<b>Social Studies Theory and Practice: 5–12</b>	3

SS 4850	<b>Social Studies Student Teaching: 5–12</b>	12
SSDI	Self and Society Directions	<u>6</u>
		<b>27</b>
<b>Total</b>		<b>122</b>

\* If SO 2220 is not taken to satisfy Group A, then the Diversity Connection must be completed in the Social Science Electives.

### TOURISM MANAGEMENT AND POLICY, Bachelor of Arts 120 credits

The BA in Tourism Management and Policy will imbue its graduates with the facility to assist others—municipal, state, and federal officials, planners, financial institutions, owners and general managers of accommodations and attractions, consultants, and chambers of commerce—in determining the role of tourism in accomplishing their respective purposes, thereby bringing greater efficiency to large and small tourism and hospitality ventures. Graduates will:

- be skilled at tracking trends within the tourism industry
- be able to convey their perceptions of the industry to others
- have a keen sense of the history of the tourism industry
- be prepared to assist the aforementioned to define their problems and prospects
- establish workable goals and objectives
- identify needs
- determine appropriate courses of action
- communicate these effectively to constituencies.

Tourism Management Policy students are trained to assist others in making adjustments to changes within the tourism industry and society as a whole.

Degree Requirements		Credits
TMP 2750	Introduction to Travel and Tourism (GACO)	3
TMP 2850	Tourism/Hospitality Practicum	1
TMP 3000	Topics in Hospitality and Tourism Management	3
TMP 3750	Tourism Marketing Analysis	3
TMP 4000	Tourism Management and Policy Internship	9
TMP 4750	Tourism Planning and Development	3
BU 1500	Financial Reporting and Analysis	3
BU 2290	Organizational Communications (WRCO)	3
BU 2450	Principles of Marketing	3
BU 3340	Consumer Behavior	3
BU 3420	Organizational Behavior (DICO)	
Group A—complete one of the following:		3
EPL 2100	Community Planning	
PO 2020	Public Administration (DICO)	
Group B—complete one of the following:		3
AN 2210	Cultural Anthropology (GACO)	
GE 2002	Human Geography	
SO 2220	Foundations of Sociology (DICO)	
Group C—complete two of the following:		6
AN 3900	Applied Anthropology	
BU 3230	Sales Management	
BU 3320	E-Commerce	
BU 3370	Advertising and Promotion Management	
BU 3600	Corporate Public Relations	
EN 3090	Technical Communication	
EN 4090	Advanced Technical Communication	
GE 4120	Topics in Human Geography	
HI 3340	New Hampshire and New England History	
SO 3390	Environment and Society (INCO)	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
BU 2240	Business Statistics (QRCO)	
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	

**General Education:**

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
SSDI	Self and Society Directions	6
INCO	Integration Connection	3
WECO	Wellness Connection	3
Foreign Language (GACO)		8
Electives		<u>18–16</u>
<b>Total</b>		<b>120</b>

The *foreign language* requirement for all BA degrees calls for 0–8 credits: one year of one language (6–8 credits); **or** one 3000/4000 level world language course (3 credits); **or** being a native speaker of a language other than English (zero credit).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
TMP 2750	Introduction to Travel and Tourism (GACO)	3
BU 2450	Principles of Marketing	3
CTDI	Creative Thought Directions	6
	Foreign Language (GACO)	<u>8</u>
		<b>29</b>

<b>Year Two</b>		<b>Credits</b>
TMP 2850	Tourism/Hospitality Practicum	1
TMP 3000	Topics in Hospitality and Tourism Management	3
BU 1500	Financial Reporting and Analysis	3
BU 2290	Organizational Communications (WRCO)	3
Group A	—complete one course	3
Group B	—complete one course	3
QRCO	Quantitative Reasoning in the Discipline Connection	3
PPDI	Past and Present Directions	6
SSDI	Self and Society Directions	<u>6</u>
		<b>31</b>

<b>Year Three</b>		<b>Credits</b>
TMP 3750	Tourism Marketing Analysis	3
BU 3340	Consumer Behavior	3
BU 3420	Organizational Behavior (DICO)	3
GE 2090	Computer Mapping (TECO)	3
Group C	—complete two courses	6
SIDI	Scientific Inquiry Directions	6–8
	Electives	<u>6–4</u>
		<b>30</b>

<b>Year Four</b>		<b>Credits</b>
TMP 4000	Tourism Management and Policy Internship	9
TMP 4750	Tourism Planning and Development	3
INCO	Integration Connection	3
WECO	Wellness Connection	3
	Electives	<u>12</u>
		<b>30</b>
<b>Total</b>		<b>120</b>

**Complementary Courses:**

BU 2480	Business Law
CM 2400	Public Speaking
PO 2010	State and Local Government

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

<b>ANTHROPOLOGY/SOCIOLOGY MINOR</b>		<b>15 credits</b>
		<b>Credits</b>
AN 2210	Cultural Anthropology (GACO)	3
SO 2220	Foundations of Sociology (DICO)	3
AN/SO 3000/4000 level	Anthropology or Sociology courses	9

<b>GEOGRAPHIC INFORMATION SYSTEMS MINOR</b>		<b>15 credits</b>
		<b>Credits</b>

Complete one of the following:		3
GE 2001	Physical Geography	
GE 2002	Human Geography	
GE 2090	Computer Mapping	3
GE 3270	Introduction to Geographic Information Systems	3
Complete six credits from the following, with a minimum of one course in Geography:		6
CS 2010	Computing Fundamentals	
CS 2080	Visual Basic	
CS 2370	Programming in Java	
GE 3350	Introduction to Airphoto Interpretation and Remote Sensing	
GE 4270	Advanced Geographic Information Systems	
GE 4280	GIS Applications: Computer Mapping	
NS 4200	Geographic Information Systems and Remote Sensing in the Sciences (INCO)	

<b>GEOGRAPHY MINOR</b>		<b>15 credits</b>
		<b>Credits</b>
GE 2001	Physical Geography	3
GE 2002	Human Geography	3
GE 3000/4000 level	Geography courses	9

<b>GLOBAL TOURISM MINOR</b>		<b>15 Credits</b>
		<b>Credits</b>
GE 2002	Human Geography	3
TMP 2750	Introduction to Travel and Tourism (GACO)	3
Complete one of the following:		3
TMP 3000	Topics in Hospitality and Tourism Management	
TMP 3750	Tourism Marketing Analysis	
Complete two of the following:		6
AN 3050	Peoples and Cultures of the Caribbean	
AN 3190	Anthropology of the Pacific	
AN 3220	Anthropology of Europe	
AN 3900	Applied Anthropology	
GE 3630	Historical Geography of Europe (GACO)	
GE 3640	The United States	
GE 4110	Topics in Regional Geography	

<b>HISTORY MINOR</b>		<b>15 credits</b>
The History minor requires a minimum of 15 credit hours in one of the following options:		

*Option I:*

6 credits in 1000/2000 level courses  
9 credits in 3000/4000 level courses

*Option II:*

6 credits in 1000 level courses  
3 credits in 2000 level courses  
6 credits in 3000/4000 level courses

*Option III:*

3 credits in 1000 level courses

6 credits in 2000 level courses

6 credits in 3000/4000 level courses

**PACIFIC RIM MINOR**

**15 credits**

In the previous two centuries, major world politics and trade centered on the Atlantic and the interaction between North America and Europe. At the start of the 21st Century, we have seen a significant shift in emphasis toward the Pacific Rim. This minor provides a solid foundation for students of any major, to prepare for the growing importance of this region. The Pacific Rim minor is interdisciplinary. Students select four classes from among a group of Anthropology, Geography, History, and Political Science courses. Additionally, students will complete one class from Asian Art, Philosophy or Culture.

**Credits**

Complete four of the following:

12

- AN 3190 Anthropology of the Pacific
- HI 3730 Modern History of East Asia (GACO)
- HI 3740 History of Japan (GACO)
- HI 3750 History of Modern China (GACO)
- HI 3760 History of Southeast Asia (GACO)
- PO 3240 International Political Economy
- PO 3300 Latin American Politics (GACO)
- PO 3580 Politics of the Pacific Rim–ASEAN
- SO 3160 Women in World Development

Complete one of the following:

3

- AH 3530 Arts of the Far East (GACO) (INCO)
- HI 2710 History of Asian Cultures
- PY 2610 Eastern Philosophy

For further information, see either Professor Peng-Khuan Chong, Political Science or Professor Bryon Middlekauff, Geography, the co-directors of this program.

**POLITICAL SCIENCE MINOR**

**15 credits**

The Political Science minor requires a minimum of 15 credits in Political Science, of which at least nine must be at the 3000/4000 level.

## Department of Social Work

**Department of Social Work**, Mary Taylor House

*Chair:* Cynthia D. Moniz

*Professors:* Stephen H. Gorin, Scott R. Meyer

Social Work is a specialized degree that prepares students for generalist social work practice in a wide range of settings to work with children, youth, families, and adults. The curriculum has a solid foundation in the liberal arts, focusing on the biological, psychological, and social sciences, as well as the knowledge, skills, and values of the social work profession. In addition to entry-level practice, the degree prepares students to pursue graduate education in social work and other related fields.

The Council on Social Work Education (CSWE) granted initial accreditation to the program in 1995. By continuing to meet the rigorous academic standards of CSWE, the program received accreditation in 2007 for the full eight-year cycle, ending in 2015. The curriculum provides content on: human behavior and the social environment, social welfare policy and services, practice theory and skills, research and field education. The field education component (450 supervised hours) provides students with a hands-on learning experience at human service agencies throughout New Hampshire. The curriculum integrates content on values and ethics, human diversity, populations-at-risk, and the promotion of social and economic justice.

Interested students can obtain additional information on the program's mission, admission and continuance requirements, and other academic policies, by contacting the Department of Social Work, accessing the Department's homepage, or referencing the Department's Student Handbook. The following is a brief summary of the program's academic policies:

### Admission Requirements

Students accepted by the University must also meet the requirements of the Department for admission. To apply, students must

1. be enrolled in or have completed SW 2200,
2. complete an application by submitting a written statement (see Social Work Student Handbook or Social Work homepage for more information and to complete the application)
3. participate in a personal interview with a member of the Social Work faculty.

The criteria and procedures used for admission are based on the academic and professional standards established by the Council on Social Work Education, the national accrediting body. The criteria used for assessment are:

1. intellectual qualities and academic skills;
2. commitment to the enhancement of quality of life for individuals and families;
3. concern for issues of social justice and sensitivity to cultural diversity;
4. capacity for self-awareness and self-evaluation.

The Department of Social Work encourages applications from students from diverse backgrounds including race, gender, sexual orientation, age, national origin, and political orientation. Students are advised to apply by their sophomore year. Applicants will receive notice regarding the decision within 14 calendar days of the interview.

### Continuation and Graduation Requirements

Once admitted, students must meet the following continuation requirements in order to gain admission to SW 4430 Social Work Practicum or the Practicum for their Option (12 credits) and the concurrent SW



4550 Social Work Seminar (three credits), and to graduate with a BS in Social Work:

1. a grade of C or better in the required (SW) Foundation Courses: SW 2200, SW 3340, SW 3350, SW 3450, SW 3510, SW 3520, SW 3530, SW 4000, SW 4550
2. a minimum major grade point average of 2.5 (all courses required for the major)
3. complete portfolio statements for each of the (SW) Foundation Courses (listed in #1 above), with the exception of SW 4550 which requires a completed capstone portfolio.

Transfer credit is not granted for either the Practicum or the Social Work Seminar. Academic credit for life experience and previous work experience shall not be granted in lieu of any course required for the major.

These academic standards should be monitored by the student and his/her faculty advisor throughout the student's Social Work education. To be admitted to the Practicum and the Seminar (SW 4550), students must have completed all of the course requirements of the major, achieved an overall grade point average of 2.0 and a major grade point average of 2.5, and earned a grade of C or better in the eight Social Work Foundation Courses (as listed above). Permission to enter the field will be granted in writing by the Program Director/Department Chair or the Field Education Director.

In addition to academic requirements, students are required to demonstrate professional and ethical behavior. Student behavior that is contrary to the ethics of the profession will be reviewed by the program to determine the student's appropriateness for continuance in the major. Behaviors that would warrant such a review are based on the Code of Ethics of the National Association of Social Workers (NASW). Examples of unprofessional or unethical behavior include impropriety in personal conduct (such as dishonesty or criminal behavior); exploitive relationships (such as sexual relationships or other behaviors pursued for personal advantage), e.g., with practicum clients; and any form of illegal discrimination or discrimination contrary to Plymouth State University policy (see the NASW Code of Ethics).

<b>SOCIAL WORK, Bachelor of Science</b>		<b>120 credits</b>
<b>Degree Requirements</b>		<b>Credits</b>
SW 2200	Introduction to Social Work	4
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4000	Social Work Research Methods	3
SW 4430	Social Work Practicum	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one of the following:		3
SW 3100	Child Welfare and Family Services	
SW 3150	Child Maltreatment	
SW 3250	Families, Schools, and Community	
Group B—complete one of the following:		3
SW 3300	Mental Health and Society (GACO)	
SW 3500	Health and Society (GACO) (WECO)	
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
SO 2220	Foundations of Sociology (DICO)	3

Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
INCO	Integration Connection	3
<i>Electives</i>		<u>26–24</u>
<b>Total</b>		<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SW 2200	Introduction to Social Work	4
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
<i>Electives</i>		<u>5</u>
		<b>30</b>

<b>Year Two</b>		<b>Credits</b>
SW 2500	Human Biology for Social Workers and the Social Sciences	3
Group B—complete one course		3
SO 2220	Foundations of Sociology (DICO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
<i>Elective</i>		<u>6–4</u>
		<b>30</b>

<b>Year Three</b>		<b>Credits</b>
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
INCO	Integration Connection	3
<i>Electives</i>		<u>6</u>
		<b>30</b>

<b>Year Four</b>		<b>Credits</b>
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4430	Social Work Practicum	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one course		3
<i>Electives</i>		<u>9</u>
		<b>30</b>
<b>Total</b>		<b>120</b>



## AGING SERVICES OPTION

This Option is for students interested in working in the rapidly growing field of aging. State departments of aging, area agencies on aging, family service agencies, hospitals, nursing homes, hospices, and retirement and assisted living communities provide social work services for older adults. These services include long-term care, recreation and quality of life activities, death and dying counseling, adult daycare, nutrition services, housing services, adult foster care, case management, mental health services, and adult protection against elder abuse. The Department has a student award for Social Work with Older People, initiated by its Geriatric Enrichment in Social Work Education Project funded by the Hartford Foundation and CSWE. Students can obtain additional information from the Department's homepage or administrative assistant.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
SW 2200	Introduction to Social Work	4
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
<b>SW 3500</b>	<b>Health and Society (GACO) (WECO)</b>	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4000	Social Work Research Methods	3
<b>SW 4460</b>	<b>Social Work Practicum: Aging Services</b>	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one of the following:		3
SW 3100	Child Welfare and Family Services	
SW 3150	Child Maltreatment	
SW 3250	Families, Schools, and Community	
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
<b>PS 3560</b>	<b>Adulthood and Aging</b>	3
SO 2220	Foundations of Sociology (DICO)	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
INCO	Integration Connection	3
<i>Electives</i>		<u>23–21</u>
<b>Total</b>		<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. Course sequence is suggested but not required.

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SW 2200	Introduction to Social Work	4
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
	Electives	<u>5</u>
		<b>30</b>

Year Two		Credits
SW 2500	Human Biology for Social Workers and the Social Sciences	3
<b>SW 3500</b>	<b>Health and Society (GACO) (WECO)</b>	3
SO 2220	Foundations of Sociology (DICO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Elective	<u>6–4</u>
		<b>30</b>

Year Three		Credits
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
INCO	Integration Connection	3
	Electives	<u>6</u>
		<b>30</b>

Year Four		Credits
SW 3530	Theory and Practice of Social Work Intervention III	3
<b>SW 4460</b>	<b>Social Work Practicum: Aging Services</b>	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one course		3
<b>PS 3560</b>	<b>Adulthood and Aging</b>	3
	Electives	<u>6</u>
		<b>30</b>
<b>Total</b>		<b>120</b>

## CHILD AND FAMILY SERVICES OPTION

This Option is for students interested in working with children, youth, and families in a variety of settings that provide a wide range of services for child protection, runaway and homeless youths, homeless families, foster care, home finding, child care, domestic violence, school social work, rape crisis intervention, teen pregnancy, delinquency, and juvenile justice. The Social Work Department's Child Welfare Partnership with the New Hampshire Division for Children, Youth and Families provides in-state tuition and a \$2,500 stipend for two to three students each year who are interested in public child welfare services. Students can obtain additional information from the Department's homepage or administrative assistant; scholarships are contingent on external funding.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
SW 2200	Introduction to Social Work	4
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3050	Perspectives on Aging (WECO)	3
<b>SW 3100</b>	<b>Child Welfare and Family Services</b>	3
<b>SW 3150</b>	<b>Child Maltreatment</b>	3
<b>SW 3250</b>	<b>Families, Schools, and Community</b>	3

SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4000	Social Work Research Methods	3
<b>SW 4440</b>	<b>Social Work Practicum: Child and Family Services</b>	<b>12</b>
SW 4550	Social Work Seminar (WRCO)	3
Group B—complete one of the following:		3
SW 3300	Mental Health and Society (GACO)	
SW 3500	Health and Society (GACO) (WECO)	
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
SO 2220	Foundations of Sociology (DICO)	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	
<i>General Education:</i>		
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
INCO	Integration Connection	3
<i>Electives</i>		<u>20–18</u>
<b>Total</b>		<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

Year One		Credits
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SW 2200	Introduction to Social Work	4
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
	<i>Electives</i>	<u>5</u>
		<b>30</b>
Year Two		Credits
SW 2500	Human Biology for Social Workers and the Social Sciences	3
Group B—complete one course		3
SO 2220	Foundations of Sociology (DICO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
	<i>Elective</i>	<u>6–4</u>
		<b>30</b>

Year Three		Credits
SW 3050	Perspectives on Aging (WECO)	3
<b>SW 3150</b>	<b>Child Maltreatment</b>	<b>3</b>
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
INCO	Integration Connection	3
	<i>Electives</i>	<u>6</u>
		<b>30</b>

Year Four		Credits
<b>SW 3100</b>	<b>Child Welfare and Family Services</b>	<b>3</b>
<b>SW 3250</b>	<b>Families, Schools, and Community</b>	<b>3</b>
SW 3450	Social Welfare Policy and Services	3
SW 3530	Theory and Practice of Social Work Intervention III	3
<b>SW 4440</b>	<b>Social Work Practicum: Child and Family Services</b>	<b>12</b>
SW 4550	Social Work Seminar (WRCO)	3
	<i>Elective</i>	<u>3</u>
		<b>30</b>
<b>Total</b>		<b>120</b>

### HEALTH SERVICES OPTION

The Option is for students interested in working in health care settings including hospitals, hospices, medical clinics, family planning clinics, neighborhood clinics, managed care, nursing homes, and health care organizations. These settings fall under public, private–nonprofit, and for–profit auspices. A diversity of social services are provided in these settings such as, maternal and child health services, hospital discharge planning, hospice care, HIV/AIDS counseling and support, and a wide range of support groups related to specific diseases.

Degree Requirements		Credits
Courses required for the Option are shown in boldface.		
SW 2200	Introduction to Social Work	4
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
<b>SW 3500</b>	<b>Health and Society (GACO) (WECO)</b>	<b>3</b>
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4000	Social Work Research Methods	3
<b>SW 4450</b>	<b>Social Work Practicum: Health Services</b>	<b>12</b>
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one of the following:		3
SW 3100	Child Welfare and Family Services	
SW 3150	Child Maltreatment	
SW 3250	Families, Schools, and Community	
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
SO 2220	Foundations of Sociology (DICO)	3
<b>Health Services Elective—complete one of the following:</b>		<b>3</b>
<b>HE 3220</b>	<b>Applied Nutrition for Healthy Living</b>	
<b>HE 4100</b>	<b>Women's Health Issues (WECO)</b>	
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
INCO	Integration Connection	3
<i>Electives</i>		<u>23–21</u>
<b>Total</b>		<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SW 2200	Introduction to Social Work	4
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
	<i>Electives</i>	<u>5</u>
		<b>30</b>

<b>Year Two</b>		<b>Credits</b>
SW 2500	Human Biology for Social Workers and the Social Sciences	3
<b>SW 3500</b>	<b>Health and Society (GACO) (WECO)</b>	<b>3</b>
SO 2220	Foundations of Sociology (DICO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
	<i>Elective</i>	<u>6–4</u>
		<b>30</b>

<b>Year Three</b>		<b>Credits</b>
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
INCO	Integration Connection	3
	<i>Electives</i>	<u>6</u>
		<b>30</b>

<b>Year Four</b>		<b>Credits</b>
SW 3530	Theory and Practice of Social Work Intervention III	3
<b>SW 4450</b>	<b>Social Work Practicum: Health Services</b>	<b>12</b>
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one course		3
<b>Health Services Elective—complete one course</b>		<b>3</b>
	<i>Electives</i>	<u>6</u>
		<b>30</b>
<b>Total</b>		<b>120</b>

**MENTAL HEALTH SERVICES OPTION**

This Option is for students interested in working in mental health care settings including community mental health centers, child and family service agencies, psychiatric facilities and hospitals, and employee-assistance programs. Mental health social workers frequently work as part of a multi-disciplinary team that includes psychiatry, psychology, and nursing.

**Degree Requirements** **Credits**

Courses required for the Option are shown in boldface.

SW 2200	Introduction to Social Work	4
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3050	Perspectives on Aging (WECO)	3
<b>SW 3300</b>	<b>Mental Health and Society (GACO)</b>	<b>3</b>
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
<b>SW 3500</b>	<b>Health and Society (GACO) (WECO)</b>	<b>3</b>
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4000	Social Work Research Methods	3
<b>SW 4470</b>	<b>Social Work Practicum: Mental Health Services</b>	<b>12</b>
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one of the following:		3
SW 3100	Child Welfare and Family Services	
SW 3150	Child Maltreatment	
SW 3250	Families, Schools, and Community	
CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
<b>PS 4330</b>	<b>Community Mental Health</b>	<b>3</b>
SO 2220	Foundations of Sociology (DICO)	3
Quantitative Reasoning in the Discipline Connection—complete one of the following:		3
MA 2300	Statistics I (QRCO)	
SS 3700	Social Statistics (QRCO)	
SW 3700	Social Statistics (QRCO)	

*General Education:*

EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
CTDI	Creative Thought Directions	6
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
INCO	Integration Connection	3
<i>Electives</i>		<u>20–18</u>
<b>Total</b>		<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

**Recommended Course Sequence**

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>		<b>Credits</b>
EN 1200	Composition	3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
MA	Mathematics Foundations	3
SW 2200	Introduction to Social Work	4

CS 1100	Introduction to Computers (TECO)	3
PS 2010	Introduction to General Psychology	3
CTDI	Creative Thought Directions	6
	Electives	5
		30
<b>Year Two</b>		<b>Credits</b>
SW 2500	Human Biology for Social Workers and the Social Sciences	3
SW 3300	<b>Mental Health and Society (GACO)</b>	3
SO 2220	Foundations of Sociology (DICO)	3
PPDI	Past and Present Directions	6
SIDI	Scientific Inquiry Directions	6–8
QRCO	Quantitative Reasoning in the Discipline Connection	3
	Elective	6–4
		30
<b>Year Three</b>		<b>Credits</b>
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
PS 4330	<b>Community Mental Health</b>	3
INCO	Integration Connection	3
	Elective	3
		30
<b>Year Four</b>		<b>Credits</b>
SW 3500	<b>Health and Society (GACO) (WECO)</b>	3
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4470	<b>Social Work Practicum: Mental Health Services</b>	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one course		3
	Electives	6
		30
<b>Total</b>		<b>120</b>

#### SOCIAL SERVICES FOR SPANISH SPEAKING COMMUNITIES OPTION

This Option is for students interested in working in social services with the rapidly growing community of Spanish-speaking people in the United States. Students must complete their 450-hour Practicum in an agency that provides services to Latinos and incorporates cultural awareness and knowledge of Spanish-speaking communities in their Practicum.

<b>Degree Requirements</b>	<b>Credits</b>
Courses required for the Option are shown in boldface.	
SW 2200	Introduction to Social Work 4
SW 2500	Human Biology for Social Workers and the Social Sciences 3
SW 3050	Perspectives on Aging (WECO) 3
SW 3340	Human Behavior and the Social Environment I 3
SW 3350	Human Behavior and the Social Environment II 3
SW 3450	Social Welfare Policy and Services 3
SW 3510	Theory and Practice of Social Work Intervention I 3
SW 3520	Theory and Practice of Social Work Intervention II 3
SW 3530	Theory and Practice of Social Work Intervention III 3
SW 4000	Social Work Research Methods 3
SW 4480	<b>Social Work Practicum: Social Services for Spanish Speaking Communities</b> 12
SW 4550	Social Work Seminar (WRCO) 3

Group A—complete one of the following:	3
SW 3100	Child Welfare and Family Services
SW 3150	Child Maltreatment
SW 3250	Families, Schools, and Community
Group B—complete one of the following:	3
SW 3300	Mental Health and Society (GACO)
SW 3500	Health and Society (GACO) (WECO)
CS 1100	Introduction to Computers (TECO) 3
IS 4370	<b>Hispanic Culture in the United States (DICO) (INCO)</b> 3
PS 2010	Introduction to General Psychology 3
SO 2220	Foundations of Sociology (DICO) 3
Group C—complete one of the following:	3–4
SP 1060	<b>Conversational Spanish I (DICO) (GACO)</b>
SP 2010	<b>Intermediate Spanish I (DICO) (GACO)</b>
SP 3030	<b>Advanced Spanish (GACO)</b>
SP 3170	<b>Spanish for Social Services (DICO) (GACO)</b>
SP 3330	<b>Spanish Conversation</b>
SV 1030	<b>Regular Spanish Program</b>
SV 3000	<b>Advanced Spanish Program</b>
Quantitative Reasoning in the Discipline Connection—complete one of the following:	3
MA 2300	Statistics I (QRCO)
SS 3700	Social Statistics (QRCO)
SW 3700	Social Statistics (QRCO)
<i>General Education:</i>	
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3
MA	Mathematics Foundations 3
CTDI	Creative Thought Directions 6
PPDI	Past and Present Directions 6
SIDI	Scientific Inquiry Directions 6–8
Electives	23–20
<b>Total</b>	<b>120</b>

SW 4550 requires a minimum grade of C in the required Social Work (SW) foundation courses and a minimum major grade point average of 2.50 (all courses required for the major).

#### Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Courses required for the Option are shown in boldface. *Course sequence is suggested but not required.*

<b>Year One</b>	<b>Credits</b>
EN 1200	Composition 3
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry 3
MA	Mathematics Foundations 3
SW 2200	Introduction to Social Work 4
CS 1100	Introduction to Computers (TECO) 3
PS 2010	Introduction to General Psychology 3
CTDI	Creative Thought Direction 3
<b>Years One or Two</b>	<b>Credits</b>
<b>Group C</b>	<b>3–4</b>
<b>Year Two</b>	<b>Credits</b>
SW 2500	Human Biology for Social Workers and the Social Sciences 3
SO 2220	Foundations of Sociology (DICO) 3
CTDI	Creative Thought Direction 3
PPDI	Past and Present Directions 6
SIDI	Scientific Inquiry Directions 6–8
QRCO	Quantitative Reasoning in the Discipline Connection 3
Electives	11–8

Year Three		Credits
SW 3050	Perspectives on Aging (WECO)	3
SW 3340	Human Behavior and the Social Environment I	3
SW 3350	Human Behavior and the Social Environment II	3
SW 3450	Social Welfare Policy and Services	3
SW 3510	Theory and Practice of Social Work Intervention I	3
SW 3520	Theory and Practice of Social Work Intervention II	3
SW 4000	Social Work Research Methods	3
Group B—complete one course		3
IS 4370	Hispanic Culture in the United States (DICO) (INCO)	3
	Elective	3
		30

Year Four		Credits
SW 3530	Theory and Practice of Social Work Intervention III	3
SW 4480	Social Work Practicum: Social Services for Spanish Speaking Communities	12
SW 4550	Social Work Seminar (WRCO)	3
Group A—complete one course		3
	Electives	9
		30
<b>Total</b>		<b>120</b>

*Note: Students with a minor must complete six credits of upper-level courses outside the major discipline.*

#### **CHILD WELFARE AND FAMILY STUDIES MINOR 16 credits**

The minor in Child Welfare and Family Studies gives students the opportunity to study the role of families, schools, the community, and government in the health, safety, and well-being of children and families. It examines common family problems, as well as strengths, and explores models of prevention and intervention to preserve and improve family life.

		Credits
SW 2200	Introduction to Social Work	4
SW 3100	Child Welfare and Family Services	3
SW 3150	Child Maltreatment	3
SW 3250	Families, Schools, and Community	3
Complete one of the following:		3
SW 2050	Introduction to Social Welfare Policy	
SW 2500	Human Biology for Social Workers and the Social Sciences	
SW 3800	Social Work Internship (only available Winterim or summer)	

#### **GERONTOLOGY MINOR 15 credits**

Gerontology is the study of human aging that includes the physical, emotional, and intellectual characteristics of older adults and the political, economic, and social implications of aging in society. The interdisciplinary minor in Gerontology gives students the opportunity to study the aging process and develop skills for working with older people.

		Credits
Complete one of the following:		3
PE 3590	Inclusive Physical Activity (DICO)	
PE 3650	Physical Activity and Aging (WECO)	
Complete one of the following:		3
PS 3560	Adulthood and Aging	
PS 3600	Biological Psychology	
SW 3050	Perspectives on Aging (WECO)	3
Complete six credits from two different disciplines from the following:		6
HE 3220	Applied Nutrition for Healthy Living	
PS 2050	Life-Span Developmental Psychology	
PY 2630	The Concept of Death	
SW 2200	Introduction to Social Work	

SW 2500	Human Biology for Social Workers and the Social Sciences
SW 3500	Health and Society (GACO) (WECO)

The prerequisites for the courses in this minor can be found in the course descriptions outlined in this Catalog. Prerequisites include: [(BIDI 2010 and BIDI 2020) or (BI 2110 and BI 2120) or SW 2500], (PS 2010 or PS 2050), junior status.

#### **HEALTH AND MENTAL HEALTH STUDIES MINOR 15 credits**

The minor in Health and Mental Health Studies gives students the opportunity to study the role of individuals, families, community, industry, and government in the health and well-being of individuals and nations. It examines epidemiological and behavioral health trends, service delivery models, and disparities in health and mental health in a comparative, global context. National and international approaches to health and mental health policy are also examined.

		Credits
SW 3050	Perspectives on Aging (WECO)	3
SW 3250	Families, Schools, and Community	3
SW 3300	Mental Health and Society (GACO)	3
SW 3500	Health and Society (GACO) (WECO)	3
Complete one of the following:		3
SW 2500	Human Biology for Social Workers and the Social Sciences	
SW 3800	Social Work Internship (only available Winterim or summer)	



## Teacher Education and Clinical Experiences

### Council of Teacher Education

*Director of Teacher Education:* Irene M. Cucina

*Department of Art:* William Haust

*Department of Atmospheric Science and Chemistry:* Susan Swope

*Department of Biological Sciences:* Mary Ann McGarry

*Department of Education:* Patricia A. Cantor (Chair) and Royce L. Robertson

*Department of English:* Meg J. Petersen

*Department of Health and Human Performance:* Louise S. McCormack

*Department of Languages and Linguistics:* Barbara D. Lopez-Mayhew

*Department of Mathematics:* John E. Donovan

*Department of Music, Theatre, and Dance:* Holly E. Oliver

*Department of Social Science:* Patrick J. May

*College of Graduate Studies in Education:* Lynnette Lawrence

*Coordinator of Teacher Certification and Clinical Experiences:* Kathy A. Vestal

*Information Technology Services:*

*Lamson Library:* Gary A. McCool

*Student Representative:*

*Director of Curriculum Support (consultant):* Mary E. Campbell

The Council of Teacher Education is responsible for the development, administration, revision, and evaluation of all teacher education programs, including preservice field experiences. The Council of Teacher Education is comprised of representatives from every department offering a teacher certification program, as well as representatives from Information Technology Services, the Library, and the College of Graduate Studies education programs. The Council works collaboratively with the Office of Teacher Certification (OTC) and the Provost, Vice President for Academic Affairs.

The Council is responsible for the dissemination and periodic assessment of the Conceptual Framework for Teacher Education and the Diversity Framework, which represent the core attitudes and beliefs of teacher education at Plymouth State University. The Council receives input from faculty, teacher education candidates, public school professionals, professional advisory boards, and professional associations. These responsibilities are in accordance with the standards of the National Association for Accreditation of Teacher Education (NCATE) and certification standards for education personnel in New Hampshire.

### Vision

The teacher education programs at Plymouth State University strive to develop visionary educators who will take the lead in transforming education in the state, the region, and the nation to better serve all students and their families. Our vision is rooted in Plymouth State's tradition of service, emphasized in the University motto, *Ut prosim*—that I may serve. At the same time, we seek to anticipate and respond to changing demographics and societal expectations by reaching into communities with programs that will educate and inspire. Through collaborations with area schools and community organizations, we aim to emphasize our shared commitment to the education and well-being of all students. Above all, we endeavor to prepare competent and caring educators who exemplify the qualities of Commitment, Service, Vision, and Leadership, and who, in turn, will cultivate these qualities in the students they teach.

### Mission

Plymouth State carries on a long-standing commitment to serve communities, the state, and the region, by preparing thoughtful, reflective educators who envision a better future for all students and willingly accept the responsibilities and challenges of leadership. Beyond the initial certification level, the University offers programs in a variety of educational specialties, which provide educational professionals

with opportunities to enhance their personal and professional growth and development. The Council of Teacher Education builds on the University's mission to provide learning experiences that promote understanding and respect for all people and to foster the constructive, open-minded discourse that is so necessary in a democracy.

The professional education programs at Plymouth State University are accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Avenue, NW, Suite 500, Washington, DC 20036; phone (202) 466-7496. This accreditation covers initial teacher preparation programs and advanced educator preparation programs. NCATE is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other school personnel.

When candidates complete all major degree and certification requirements, Plymouth State recommends to the state of New Hampshire that they be granted teacher certification. Graduates are eligible for certification in approximately 47 other states through reciprocal certification.

Plymouth State University offers the following state-approved and NCATE-accredited initial teacher certification programs:

- Art Education (K–12)
- Biology with an option in Biological Science Education (7–12)
- Chemistry with an option in Chemistry Education (7–12)\*
- Childhood Studies with an option in Teacher Certification (K–8)
- Early Childhood Studies with an option in Teacher Certification (K–3)
- English with an option in Teacher Certification (5–12)
- Health Education with an option in School Health (K–12)
- Mathematics with an option in Middle School Teacher Certification (5–8)
- Mathematics with an option in Secondary Teacher Certification (7–12)
- Music Education (K–12)
- Physical Education with an option in Physical Education and Health Education Teacher Certification (K–12)
- Physical Education with an option in Teacher Certification (K–12)
- Social Science with an option in Social Studies Teacher Certification (5–12).

\* pending approval by the New Hampshire State Department of Education.

Students majoring in any approved Teacher Certification program may also earn Teaching English to Speakers of Other Languages (TESOL) certification. See TESOL academic minor in the Department of Languages and Linguistics.

The College of Graduate Studies offers post-baccalaureate certification programs and/or graduate degrees (MAT, MEd, MS, CAGS) leading to initial certification in all of the above areas, as well as additional endorsements and professional educator certifications. Additional endorsements available through the College of Graduate Studies are:

- Computer Technology Education with Teacher Certification (K–12)
- Counselor Education Certification (K–12)
- Curriculum Administrator Certification \*
- Emotional Handicap Teacher Certification (K–12)
- General Science Education with Teacher Certification (5–9)
- Learning Disabilities Teacher Certification (K–12)
- Library Media Specialist Certification (K–12)
- Reading Specialist Certification (K–12)
- School Principal Certification (K–12)
- School Psychologist Certification (K–12)



- Special Education Administrator Certification (K–12)
  - Superintendent of Schools Certification (K–12)
  - Teaching English to Speakers of Other Languages Teacher Certification (K–12)
- \* pending approval by the New Hampshire State Department of Education.

Details on the graduate programs of study are available within the Graduate Academic Catalog. Details on each undergraduate program of study are available within the departmental listing of major degree requirements. Each program has the same General Education requirements as other bachelor degree programs at the University.

Candidates may change from one teaching program to another. However, they incur the responsibility of identifying and satisfying all requirements of the new program including readmission into teacher certification. Teacher Certification candidates who return to the University after a withdrawal must do so under the requirements of the most current Academic Catalog.

**Master of Education: K–12 Education in Special Education—5th year program.** Students interested in obtaining General Special Education Certification may do so upon completion of their undergraduate Teacher Certification program. Application to the 5th year program must be completed and sent to the College of Graduate Studies by April 15th of that year. Students interested in pursuing this program must be accepted into the program following a completed application package, a formal interview process, and a final acceptance into the College of Graduate Studies.

Students will begin courses in the Summer Term beginning July 1st of that year. Students will follow courses for a one-year time frame with an anticipated graduation the following May. These students will be required to do a one-year internship in a special education position at a school placement decided by the College of Graduate Studies.

Further information may be found on the University Web site or by calling the Coordinator of Special Education, Dr. Marcel Lebrun at (603) 535-2288 or via e-mail at [mrlebrun@plymouth.edu](mailto:mrlebrun@plymouth.edu).

### Conceptual Framework for Teacher Education

The conceptual framework for teacher education at Plymouth State University is a shared set of beliefs and attitudes that serves as the foundation for each teacher education program. The framework clearly identifies for faculty, staff, and students the core values that we share as a community. These core values—Commitment, Holism, Experience, Collaboration, and Knowledge—are meaningfully integrated into all teacher education coursework, service learning, and practice teaching experiences. In brief, the underlying assumptions of the conceptual framework are as follows:

#### Commitment

We define commitment as dedication, perseverance, and individual and social responsibility. Our candidates are committed to lifelong learning and to increasing self-knowledge. They are committed to the beliefs that all students can learn and that education has the power to transform individuals and the greater society. Our teacher candidates recognize the responsibility of educators to take a thoughtful and critical stance towards themselves and their profession.

#### Holism

Our holism perspective involves affirming diversity and understanding the “whole child” within the family, community, and cultural context. It includes working towards an integrated curriculum and recognizing how we as educators are shaped by our own experiences and culture. This holistic perspective shapes our larger vision.

#### Experience

Experience allows us to put theory into practice. We provide opportunities for experiential learning that serve communities and schools so that our teacher candidates can do the same for their students. Experience also involves constantly renewing skills and knowledge within one’s discipline.

#### Collaboration

Collaboration involves working with students, families, and colleagues effectively within the school context toward shared goals, demonstrating respect and openness towards diverse perspectives, and confronting and resolving conflicts effectively and respectfully. Collaboration enhances both teaching and learning, and is an essential part of developing the capacity to lead.

#### Knowledge

Knowledge refers to understanding the theory, content, methods and materials, and technologies of one’s field, as well as understanding child and adolescent development, learning processes, and student motivation within the familial, community, and cultural contexts in which children grow and learn. Teaching that engages all learners combines a knowledge of students and one’s subjects within the cultural, social, and institutional context.

Teacher education candidates are introduced to the Conceptual Framework in their introduction to education courses.

### Diversity Framework for Teacher Education

Each teacher education candidate at Plymouth State University, by the conclusion of her or his program, will be able to:

- Critically examine her or his own identity, and accept that our background and experiences shape our view of the world
- Learn from and about students, families and communities
- Identify and empathize with and accept students from diverse backgrounds
- Become a multicultural person by exploring and learning to understand the experiences and values of others
- Confront racism and other biases in her/himself, her/his classroom, and in schools and other institutions in society
- Demonstrate commitment and skills to act as a change agent
- Implement culturally responsive teaching practices.

**Multicultural Education:** A comprehensive approach to education that identifies, challenges, and rejects all forms of discrimination in schools and society, and accepts and affirms the pluralism (ethnic, racial, linguistic, religious, economic, gender, age, etc.) that students, their communities, and teachers reflect. Multicultural education is not an add-on program, but is fundamental to every aspect of the education process: curriculum, pedagogy, policy, and interactions among students, teachers, school personnel, families, and community members. Multicultural education promotes democratic principles of social justice and thoughtful transformation of schools and society.

**Culture:** The values, traditions, social and political relationships, world-views, and ways of living created, shared, and transformed by a group of people bound together by a community or commonalities. This commonality can be self-defined or imposed by others. Culture is socially constructed, learned implicitly and explicitly, dynamic and contextual, and multi-faceted. It influences development, learning, beliefs, identity, values, and interactions.

**Linguistic Diversity:** Language is fundamental to identity and to learning. Language embodies culture and provides a vital connection to family and community. One’s native language is a foundation for future learning. The ways in which teachers and schools respond to students’ lan-

guage and dialect have profound influence on their learning. Language differences must not be viewed as deficits.

*Dynamics of Power and Privilege:* Most definitions of racism and discrimination obscure their institutional nature. Discrimination is not simply an individual bias; it is above all an institutional practice. The major difference between individual and institutional discrimination is the wielding of power, because it is primarily through the power of the people who control institutions such as schools that discriminatory policies and practices are reinforced and legitimated. Prejudice and discrimination, then, are not just personality traits or psychological phenomena; they are also a manifestation of economic, political, and social power. (Nieto, 2000, p. 37). Policies and practices rooted in discrimination have a harmful effect on groups that share a particular identity, be it racial, ethnic, gender, socioeconomic status, or other (Nieto, 2000, p. 35).

*Student Achievement:* All students have talents and strengths, and are capable of high levels of learning. School characteristics that have been found to make a positive impact on student achievement include an enriched and more demanding curriculum, respect for students' languages and cultures, high expectations for all students, and encouragement of parental involvement (Nieto, 2000, p. 245). Educators have the responsibility to implement comprehensive and collaborative opportunities for family involvement because family involvement has been shown to enhance student achievement.

### Diversity Goals for Teacher Education Candidates

In order to teach effectively and ensure student learning in a democratic and pluralistic society, each teacher education candidate at Plymouth State University, by the conclusion of his or her program, will have developed the ability to:

1. describe culture as a multifaceted and dynamic construct
2. critically examine his or her own sociocultural positions and understand the ways in which background and experiences shape one's view of the world
3. learn from and about students, families, and communities, and draw on this knowledge to inform instruction.
4. view students and families of diverse backgrounds and abilities in respectful and affirming ways
5. acquire and extend his or her own multicultural awareness by exploring and learning about the history, experiences, beliefs, and values of others
6. recognize and challenge biases in him/herself and others, as well as institutional oppression in schools and throughout society
7. implement inclusive, culturally responsive teaching practices.

## Road to Teacher Certification Student Timeline

### Gate Requirements

#### Gate 1: Application for Teacher Certification Candidacy

*First or Sophomore year*

1. Teacher Certification Application Page Submitted
2. Passing Praxis I Scores
3. Faculty Evaluation One of Teacher Candidate
4. Faculty Evaluation Two of Teacher Candidate
5. Required Cumulative GPA of 2.5

#### Gate 2: Application to Student Teaching (one year prior to Student Teaching)

*End of Junior year/Start of Senior year*

1. Student Teaching Application Page Submitted
2. Curriculum Planning Guide
3. Required Cumulative GPA of 2.5/2.7

#### Gate 3: Acceptance into Student Teaching

*Senior year*

The Student Teaching Application Package, including requirements 1–5, must be completed by the Student Teacher Candidate before placement is considered.

1. Resume
2. Professional Statement
3. Placement Information Sheet (signed by department coordinator, if applicable)
4. Department Approval
5. Required Cumulative Department GPA of 2.5/2.7
6. Student Teaching Registration
7. Placement Confirmation One
8. Placement Confirmation Two (if applicable)
9. Session 1—Preparing for Student Teaching
10. Session 2—Laws and Ethics for Student Teaching

#### Gate 4: Student Teaching and Program Completion

*Senior year*

1. Midterm Evaluation—Cooperating Teacher
2. Final Evaluation—Cooperating Teacher
3. Midterm Evaluation—Clinical Faculty
4. Final Evaluation—Clinical Faculty
5. Session 3—Preparing for Employment
6. Session 4—Program Assessment and Closure to Student Teaching and Certification

**Gate:** The term gate is commonly used by NCATE accredited colleges and universities to describe their decision points in their candidate and unit assessment systems. A gate is a level of attainment that clearly communicates how far the candidate has progressed on the road to certification.

*Note:* Graduate students pass through a similar set of “gates” in their programs. Please refer to the Program Planning Guides available in the College of Graduate Studies for more information specific to the post-baccalaureate and graduate programs.

Applications are available in the Teacher Certification Handbook. Students may download the Handbook from the OTC Web site at: [plymouth.edu/teachercertification/](http://plymouth.edu/teachercertification/). All teacher certification candidates can monitor their own progress through the Gate Requirements by regularly checking the Teacher Certification link in myPlymouth.

#### Application for Teacher Certification Candidacy—Gate 1

Acceptance to Plymouth State University does not automatically assume acceptance into teacher certification. Application to teacher certification candidacy is initiated with the Office of Teacher Certification during the first semester of enrollment. To be formally admitted to teacher certification candidacy requires that the student achieve the cumulative grade point average (GPA) required by the department sponsoring the teacher education program. Students who do not meet the required GPA criteria are encouraged to meet with their academic advisors and the staff in the Office of Teacher Certification to discuss their options. Two faculty evaluations are required as part of the application process as admission into teacher certification candidacy considers both academic and personal characteristics of the candidate.

### Praxis

The criteria for admission include a validation of basic skills proficiency through standardized examination. Validation of basic skills proficiency is determined by passing Praxis I: Pre-Professional Skills (PPST) Tests in reading, mathematics, and writing. This standardized examination is offered on campus during the academic year, as well as at off-campus sites. This test must be taken during the first year in the teacher education program. Information regarding registration and alternative testing sites is available from the Office of Teacher Certification.

The state of New Hampshire requires all candidates for teacher certification to pass the Praxis I exam. All Plymouth State University teacher education candidates must pass the Praxis I exam **prior** to student teaching. Under Title II, Sections 207 and 208 of the Higher Education Act, Plymouth State University is required to report passing rates on this exam for all graduates of teacher education programs.

Transfer students enrolling in a program leading to teacher certification should contact the Office of Teacher Certification as soon as possible after acceptance into the University, for a teacher certification candidacy procedure that is appropriate for their transfer status.

### Field Experiences

All departmental programs recognize the importance of early and continual professional field experiences. Teacher certification candidates must complete the designated observation/participation requirements included in the course work of the department sponsoring the certification program.

All teacher certification candidates who interact with students in public school settings through course-related field experiences are subject to New Hampshire state legislation that requires all persons who regularly come into contact with pupils on a daily basis for a period of time to undergo a full disclosure criminal records check. This may include fingerprinting. The processing of the criminal records check is conducted at the site school before the field experience begins. The fee for this processing is the responsibility of the teacher candidate and is paid directly to the school district. Inquiries should be directed to the Coordinator of Teacher Certification and Clinical Experiences.

### Application to Student Teaching—Gate 2

Candidates must file an Application to Student Teach and a Curriculum Planning Guide review with the Coordinator of Teacher Certification and Clinical Experiences one year **prior** to the anticipated semester of student teaching. This allows candidates time to ensure that all academic and professional requirements will be complete before acceptance into student teaching. Acceptance into Teacher Certification Candidacy, including passing scores in the Praxis I test, is required **before** an application to student teach will be accepted. Candidates must have the cumulative grade point average designated by the department sponsoring the Teacher Education program.

### Acceptance into Student Teaching—Gate 3

All applicants must be approved by both the Coordinator of Teacher Certification and Clinical Experiences and the major department. Candidates must have the cumulative grade point average designated by the department sponsoring the Teacher Education program and have completed all other course requirements for certification by the end of the semester prior to the one in which they wish to student teach. A resume, a professional statement, and attendance at sessions are required as part of acceptance into student teaching.

The consent of the Director of Teacher Education and the appropriate certification program coordinator is necessary for student teachers to take additional courses during the student teaching semester. Overload regulations regarding eligibility and fees apply to candidates carrying more than a total of 17 credits hours in the student teaching semester; see Overload Fees in the Tuition and Fees section. Formal acceptance to Student Teaching is determined by the Coordinator of Teacher Certification and Clinical Experiences at the end of the semester prior to student teaching.

ter; see Overload Fees in the Tuition and Fees section. Formal acceptance to Student Teaching is determined by the Coordinator of Teacher Certification and Clinical Experiences at the end of the semester prior to student teaching.

All candidates for certification must complete a period of supervised student teaching within the state of New Hampshire at a placement approved by the Coordinator of Teacher Certification and Clinical Experiences.

All student teachers are subject to New Hampshire state legislation that requires all persons who regularly come into contact with pupils on a daily basis for a period of time to undergo a full disclosure criminal records check, including fingerprinting. The processing of the criminal records check is conducted at the student teaching site school before student teaching begins. The fee for this processing is the responsibility of the student teacher and is paid directly to the school district. Inquiries should be directed to the Coordinator of Teacher Certification and Clinical Experiences.

### Student Teaching and Program Completion—Gate 4

Candidates must satisfy all requirements for Gate 4 which includes satisfactory completion of midterm/final evaluations, required attendance at sessions, and recommendation for state certification. In order to be approved for graduation, candidates must successfully complete student teaching and all other required coursework and must meet the GPA requirement of their Teacher Certification program.

Graduates of any of the Teacher Education programs at Plymouth State University are eligible for recommendation for New Hampshire teacher certification by the New Hampshire State Department of Education. Because New Hampshire is a member of the Interstate Certification Contract, Plymouth graduates are eligible for certification in any of the Contract states upon application to that state's education department. However, the applicant would be bound by any additional requirements of the receiving state. Information regarding the Interstate Certification Contract is available at [www.nasdt.org](http://www.nasdt.org).

All applicants for New Hampshire certification in Biology, Early Childhood Education, Elementary Education, English, Middle School Mathematics, Physical Science, Secondary Mathematics, and Social Studies, must submit passing scores in **both Praxis I and Praxis II: Content Area Assessment**. These passing scores are determined by the NH State Board of Education and are available in the Office of Teacher Certification. In the near future we expect additional certification areas will be subject to Praxis II. Information regarding registration for Praxis II exams and alternative testing sites is available from the Office of Teacher Certification.

The monitoring of candidates throughout their teacher education program takes into consideration the personal attributes of the candidates as well as their academic achievement. Continual assessment of candidates' "specific strengths and weaknesses" in these areas shall be used to determine "continuation in or removal from the teacher education program and the readiness to enter the profession." [See Ed.604 Admission, Retention and Evaluation Policies and Practices in Standards and Procedures for Approving Professional Preparation Programs in New Hampshire, available through the Office of Teacher Certification.]

### College of Graduate Studies Conversion Program for Teacher Certification

The Educator Conversion program is an individually designed, competency-based graduate program of study leading to recommendation for New Hampshire educator certification. Applicants to this program must hold, or be in their final year of completing, a bachelor's degree. Educator Conversion program candidates must hold the bachelor's

degree in order to qualify for full admission. Also, passing scores on the Praxis I are required for admission. Certification endorsement is available in all areas covered by the University's teacher education program as well as professional certification areas that require study beyond the master's degree. No degree or diploma is awarded at program completion, but a certificate of completion is provided. Admission to the Conversion program is initiated through formal application to the College of Graduate Studies. Application materials are available at the College of Graduate Studies Office and online at [plymouth.edu/graduate](http://plymouth.edu/graduate). When students complete the program, they must file a degree audit/certification audit form to start the completion process. A transcript audit is then completed and a letter with certification documents is forwarded to the student.

#### **Graduate Practicum (Student Teaching for Employed Teachers)**

Qualified participants in educator certification programs through the College of Graduate Studies, including candidates in the Educator Conversion program, who are currently employed as public school teachers in the area of certification endorsement they seek, may apply to participate in the Graduate Practicum to substitute current employment for the required semester of student teaching (internship). Candidates must have completed all other requirements for endorsement before participating in the Graduate Practicum. Candidates apply for this alternative through the Certification Coordinator, no later than their last term of coursework before the practicum would begin. The Associate Vice President for Graduate Studies gives final approval for this option. Employment must be verified by the candidate's supervisor and the supervisor must complete observations of the candidate and must provide written evaluations of the candidate's work. The Certification Coordinator for Graduate Studies will assign one or more University supervisors who will observe and provide evaluations as well. Candidates must complete the required portfolio as described in the Graduate Certification handbook and course syllabus. This option is available only to graduate students who are employed in the endorsement areas. Contact the Certification Coordinator in the College of Graduate Studies for more information.

#### **Graduate Degree Programs and Educator Certification**

Candidates can obtain the Master of Education (MEd), Master of Science (MS), Master of Arts in Teaching (MAT), and the Certificate of Advanced Graduate Studies (CAGS) and become endorsed for educator certification and/or professional certification in areas covered by the University's teacher education program as well as professional certification areas that require study within or beyond the master's degree. These programs are described in the Plymouth State University Graduate Academic Catalog. Candidates work individually with their program's advisor to create a program of study that will lead to the Master's degree or CAGS and endorsement for certification. Program advisors review the candidates' previous transcripts and determine what is needed to address the New Hampshire competencies for both general education and professional education, as well as any appropriate requirements of related professional accrediting associations. A program plan is created and approved by the advisor and the Associate Vice President for Graduate Studies. For more information and application materials, contact the College of Graduate Studies or visit their Web site at [plymouth.edu/graduate](http://plymouth.edu/graduate).

## Undergraduate Courses

### Course Credits

Course credits are earned as a semester hour. The credit value of each course is indicated following the title of the course, e.g., 3 for a three-credit course.

### Course Identifier

The course identifier is a combination of a two, three or four-letter abbreviation for its discipline and a four-digit number for its level, e.g., first year, sophomore, junior, senior. Course descriptions are listed alphabetically by the following discipline codes:

Code	Discipline	Sponsored By
AC	Arabic	Department of Languages and Linguistics
AE	Art Education	Department of Art
AG	Graphic Design	Department of Art
AH	Art History	Department of Art
AN	Anthropology	Department of Social Science
AP	Adventure Education	Department of Health and Human Performance
AR	Fine Art	Department of Art
AT	Athletic Training	Department of Health and Human Performance
BI	Biology	Department of Biological Sciences
BU	Business	Department of Business
CC	Coaching	Department of Health and Human Performance
CD	Childhood Studies	Department of Education
CH	Chemistry	Department of Atmospheric Science and Chemistry
CJ	Criminal Justice	Department of Criminal Justice
CM	Communication and Media Studies	Department of Communication and Media Studies
CN	Chinese	Department of Languages and Linguistics
CS	Computer Science	Department of Computer Science and Technology
DN	Dance	Department of Music, Theatre, and Dance
EC	Economics	Department of Business
ED	Education	Department of Education
EN	English	Department of English
EPL	Environmental Planning	Department of Social Science
ER	Early Childhood Studies	Department of Education
ERSE	Early Childhood Special Education	Department of Education
ES	Earth Science	Department of Environmental Science and Policy
ESP	Environmental Science and Policy	Department of Environmental Science and Policy
FR	French	Department of Languages and Linguistics
GE	Geography	Department of Social Science
GR	German	Department of Languages and Linguistics
HE	Health Education	Department of Health and Human Performance
HI	History	Department of Social Science
HU	Humanities	Humanities Council
IS	Interdisciplinary Studies	
LA	Latin	Department of Languages and Linguistics
LL	Language and Linguistics	Department of Languages and Linguistics
MA	Mathematics	Department of Mathematics

ME	Music Education	Department of Music, Theatre, and Dance
MT	Meteorology	Department of Atmospheric Science and Chemistry
MU	Music	Department of Music, Theatre, and Dance
NS	Natural Science	Department of Environmental Science and Policy
PE	Physical Education	Department of Health and Human Performance
PEHE	Physical Education and Health Education	Department of Health and Human Performance
PH	Physics	Department of Atmospheric Science and Chemistry
PO	Political Science	Department of Social Science
PS	Psychology	Department of Psychology
PY	Philosophy	Department of Philosophy
RL	Reading	Department of Education
SE	Special Education	Department of Education
SO	Sociology	Department of Social Science
SP	Spanish	Department of Languages and Linguistics
SS	Social Science	Department of Social Science
SV	Study Abroad: Mexico	Department of Languages and Linguistics
SW	Social Work	Department of Social Work
TH	Theatre	Department of Music, Theatre, and Dance
TMP	Tourism Management and Policy	Department of Social Science
WS	Women's Studies	Women's Studies Council

### DI General Education Direction

DI follows the discipline code of a course that satisfies a General Education Direction (see below) and is part of the course identifier. For example:

- CSDI 1200 Web Expressions is a Computer Science (CS) course that is a Creative Thought Direction (DI).
- MUDI 1310 Exploring Music is a Music (MU) course that is a Past and Present Direction (DI).

*Cross-listed courses:* courses that are offered under two different disciplines, e.g., PS 3030 and SO 3030. The course description is printed under one discipline and is referenced in the other discipline.

### Course Number System

*First year:* courses numbered 1000 to 1999. Introductory courses for the general student population. No prerequisites required.

*Sophomore:* courses numbered 2000 to 2999. Introductory courses generally for the majors and courses that serve other majors. These courses may or may not have a prerequisite.

*Junior:* courses numbered 3000 to 3999. Upper-level courses that usually have an identified prerequisite. The prerequisite may be a specific course or grade point average or it could be more general such as junior or senior status. These courses carry with them a higher expectation of performance consistent with junior status.

*Senior:* courses numbered 4000 to 4999. Typically reserved for capstone courses in the majors. They will usually have at least one prerequisite. These courses carry with them a higher expectation of performance consistent with senior status.

Special permission is required for first year students to take 3000–4000 level courses, and for sophomores to take 4000-level courses.

*Upper-division:* 3000 and 4000 level courses

*Upper-level:* 3000 and 4000 level courses

*Graduate:* courses numbered 5000 to 8990 (see Graduate Catalog).

**Course Description**

The following information may be found at the end of each course description: when offered, prerequisite(s), corequisite(s) and General Education abbreviation.

*When offered:* a statement of when the course is typically offered.

*Prerequisite(s):* the course code(s) of courses(s) that must be taken or a general condition that must be met **prior** to registering for the course being described. “Permission of the instructor” is the implied Prerequisite for all courses with a stated Prerequisite.

*Corequisite(s):* the course code(s) of courses(s) that must be taken **concurrently** with the course being described.

*General Education abbreviation:*

The following abbreviations are listed, in parentheses, at the end of course descriptions for courses that meet the General Education requirements required of students **prior to the 2005–2006 Catalog**:

ARTS	Fine and Performing Arts Perspective
GLOB	Global Perspective
HIST	Historical Perspective
INTG	Integrative Component
LITY	Literary Perspective
PHIL	Philosophical Perspective
QUAN	Quantitative Reasoning Perspective
SCIE	Scientific Perspective
SCLB	Scientific and Scientific Laboratory Perspective
SLAB	Scientific Laboratory Perspective
SPSY	Social and Psychological Perspective
TECH	Technological Perspective
WRIT	Writing course within a major

The following abbreviations are listed, in parentheses, at the end of course descriptions for courses that meet the General Education requirements required of students **beginning with the 2005–2006 Catalog**:

CTDI	Creative Thought Direction
PPDI	Past and Present Direction
SIDI	Scientific Inquiry Direction
SSDI	Self and Society Direction
DICO	Diversity Connection
GACO	Global Awareness Connection
INCO	Integration Connection
QRCO	Quantitative Reasoning in the Discipline Connection
TECO	Technology in the Discipline Connection
WECO	Wellness Connection
WRCO	Writing in the Discipline Connection

The University reserves the right to add, change or delete courses as well as course descriptions.



## AC—Arabic

### AC1010 Fundamentals of Arabic I 4 credits

An introductory course with three regular class meetings per week with the instructor. Emphasis is on oral communication. Language in a cultural setting is emphasized throughout the semester. Falls. *Corequisite(s)*: AC 1900. (GACO)

### AC1020 Fundamentals of Arabic II 4 credits

Continuation of AC 1010 with increased attention to reading and writing. Springs. *Prerequisite(s)*: AC 1010. *Corequisite(s)*: AC 1905.

### AC1900 Fundamentals of Arabic I Lab 0 credit

This self-directed language lab (Hyde 221) accompanies AC 1010. Students have the opportunity to review course material and complete assignments. Falls. *Corequisite(s)*: AC 1010.

### AC1905 Fundamentals of Arabic II Lab 0 credit

This self-directed language lab (Hyde 221) accompanies AC 1020. Students have the opportunity to review course material and complete assignments. Springs. *Corequisite(s)*: AC 1020.

## AE—Art Education

### AE1000 Introduction to Art Education 3 credits

Required for first year students majoring in Art Education. Provides an examination of the foundations of art education in public schools and examines the motivations for selecting art teaching as a profession. Focuses on grades kindergarten through grade 12. Topics include overviews of pre-service teacher preparation at PSU, societal issues affecting public education in general and the arts in particular, a review of American education history, school finance and school law, and the study of student learning styles and needs. Students initiate the development of a professional electronic portfolio. Requires a 10 hour observation/participation component in the public schools. Springs.

### AE2000 Foundations of Art Education 3 credits

The changing role of the visual arts in public education is examined as an introductory foundation to the field of art education. The significance of art experiences for children of all ages is explored through readings, research, observations and participation. Theories of visual learning and artistic development are observed and analyzed. A 10 hour school observation component is required. Falls.

### AE3050 Methods and Materials for Art Education 3 credits

Children's cognitive and artistic development, materials, and processes are examined in the context of instructional planning at the elementary level. This is accompanied with the study of constructivist teaching methods, dialogic motivation, and essential questions. Readings, research discussion, studio production, and classroom observations provide the framework for the study of art education as a discipline incorporating studio production, aesthetics, art history, and criticism. Examines art materials health and safety regulations. A 10 hour school observation component is required. Additional course fee required. Springs. *Prerequisite(s)*: AE 2000.

### AE3060 Instructional Planning and Pedagogy for Art Education 3 credits

A continuation of the examination of pedagogy and constructivist methodology for art education and diverse student populations at the middle and high school levels. Components include community and citizenship development, critical skills, multicultural education, special needs inclusion, and gifted and talented. The principles of cooperative discipline and the responsive classroom support the holistic developmental needs of children. Standards-based instructional planning at the secondary level emphasizes interdisciplinary and multicultural social themes. A 10 hour school observation/teaching component is required. Additional course fee required. Falls. *Prerequisite(s)*: AE 3050. (DICO)

### AE3100 Curriculum and Assessment for Art Education 3 credits

The content and structure of the public school visual art curriculum at elementary, middle and secondary levels are examined as a major contributing factor to the educational development of all children. Following a review of the literature and an exploration of current best practices, a curriculum model and authentic assessment strategies are developed. Emphasis is placed on state and national standards in the visual arts and reflects state mandates on visual arts assessment in K–12 public education. Technology-based research methods are introduced. A 10 hour school observation component is required. Springs. *Prerequisite(s)*: AE 3060.

### AE3500 Technology for Art Education 3 credits

Examines the history and evolution of visual arts technology in Art Education and how it impacts curriculum development, art education, culture and society. Designed to provide students with project-based experience in visual arts technology software programs and applications. Students gain proficiency with digital imaging and animation in addition to working with digital still and video cameras,

multimedia production and use of scanning software. Students demonstrate proficiencies by writing and developing a narrative animation film, researching and designing a resource/advocacy brochure, creating theme-based photomontages and creating and presenting instructional multimedia. Students apply all projects to the design of an art education technology unit that supports national and state Art Education curriculum standards. Required for BS Art Education majors; recommended for BFA/MAT Art Education majors. Falls and Springs. *Prerequisite(s)*: junior status or (AE 2000, AE 3050 and/or AE 3060). (TECH)(TECO)

### AE4020 Contemporary Topics in Art Education 1–3 credits

Provides opportunity for immersion in a specialized topic/area concerning studio art, art history, multicultural arts traditions, special education, technology, graphic design and/or art education, which contemporary art educators address as professionals. Guest artists, educators and professionals working with faculty members are invited to teach this course and share their experience and expertise in selected areas of specialization. Students may repeat this course when it is offered under a different topic. Occasionally. *Prerequisite(s)*: junior status as Art or Art Education major.

### AE4910 Independent Study in Art Education 1–4 credits

Advanced work in a limited area of art education, developed and executed in consultation with an Art Department faculty mentor. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: senior standing.

### AE4950 Art Education Student Teaching: K–12 12 credits

The culminating field-based experience for Art Education majors, leading to teacher certification. It is a continuous, full-time (five days per week) experience of 12 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of visual art teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching of diverse populations of students. Student teaching is conducted under the supervisory guidance of school faculty and members of the Art Education clinical faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of program requirements in Art Education and education by the beginning of the student teaching experience; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**AE4960 Art Education Student Teaching: Secondary Component 6 credits**

The culminating field-based experience for Art Education majors, leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observation, students gradually assume responsibility for a full range of visual art teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching of diverse populations of students. Student teaching is conducted under the supervisory guidance of school faculty and members of the Art Education clinical faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of program requirements in Art Education and education by the beginning of the student teaching experience; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**AE4970 Art Education Student Teaching: Elementary Component 6 credits**

The culminating field-based experience for Art Education majors, leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observation, students gradually assume responsibility for a full range of visual art teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching of diverse populations of students. Student teaching is conducted under the supervisory guidance of school faculty and members of the Art Education clinical faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of program requirements in Art Education and education by the beginning of the student teaching experience; permission of the Coordinator of Teacher Certification and Clinical Experiences.

## AG—Graphic Design

**AG2330 An Introduction to Graphic Design Software 3 credits**

Preliminary course for integrating design students with the necessary technological aspect of their visual communication education. Begins with a basic overview of the history and evolution of technology in design education and how it has impacted not only curriculum development, but the field and study of graphic design, culture and society. Explores the most indispensable software packages offered in the industry for digital graph-

ics, then proceeds through a series of short projects and tutorials which enable the students to master the fundamental techniques used in these electronic design applications. Software types covered include: drawing, page layout and image-processing programs. Attention is given to word-processing as a necessary program for creating, importing and manipulating text copy into graphic applications. Students have hands-on instruction at Macintosh computer workstations throughout the course and learn associated information concerning the use of computer hardware peripherals, e.g., scanners, printers, etc. Falls and Springs. *Prerequisite(s)*: Graphic Design majors or minors only, or permission of instructor. (TECO)

**AG2350 Graphic Design I 3 credits**

Introductory course to acquaint students with the history, principles and procedures of graphic communication. Study of the formal relationships of design elements as applied to type and image. Design assignments include creative and practical development of solutions. Additional course fee required. Falls. *Prerequisite(s)*: AR 1040, and (AR 1100 or AR 1120).

**AG3050 Digital Multimedia Design 3 credits**

Investigates the relationship of images that are manipulated on the computer and the time and dimensionality that are used to view them. The flexibility of the medium used may facilitate the visualization of the image as well as its syntax. Covers software such as Photoshop, Premiere, Director and Web editors. This class is for visually trained students. As such, original sketches, documents and pictures are the starting point for each project. Falls and Springs. *Prerequisite(s)*: AG 2330.

**AG3300 Graphic Design II 3 credits**

Emphasis on the development of a range of visual solutions to specific design problems and the exploration of appropriate materials and techniques and their applications. Intense problem-solving experience. Additional course fee required. Springs. *Prerequisite(s)*: AG 2350.

**AG3360 Graphic Design III 3 credits**

Design situations typical of a design studio, agency or industry are set up. Includes packaging and three-dimensional design. Emphasizes thorough involvement in the developmental process of carrying design from concept to completion. Additional course fee required. Falls. *Prerequisite(s)*: AG 3300.

**AG3480 Production for Graphic Design 3 credits**

Deals with the basics of preparing design ideas for printing. Emphasizes the development of an understanding of the working

relationship between a graphic designer and a printer. Includes pre-press and computer-assisted production, printing technology, production terminology, graphic arts photography and related specific information necessary for producing finished art in an efficient, accurate and qualified manner. Falls and Springs. *Prerequisite(s)*: AG 2350 and AG 3300.

**AG3500 History of Graphic Design 3 credits**

An introduction to the history and philosophy of graphic design which explores the predominant historic art movements and their effects on graphic design as a field of study. Emphasizes the late 19th and 20th century designers and their work. Linked to current notable designers and design trends including Postmodern and New Wave graphics. Falls and Springs. (WRCO)

**AG3600 Advanced Photoshop and Illustrator Techniques 3 credits**

Continued study of two premier software packages featured in AG 2330. Proceeds from the student's familiarity of Photoshop and Illustrator into the higher skill levels necessary for creating truly outstanding digital graphics. Provides a mastery-level achievement experience with the software and reveals capabilities through progressive techniques and variations that have students creating graphics with true authority. Students garner many new digital shortcuts, key commands and time-saving techniques in these programs that allow them to concentrate on their creative abilities, instead of experiencing technical roadblocks. The path to true creation on the computer for the practicing designer is to not be limited by technical shortcomings, but instead to be able to create and produce whatever the mind imagines. Students have hands-on instruction at Macintosh computer workstations. Springs. *Prerequisite(s)*: AG 2330.

**AG4350 Advanced Flash Animation and Effects 3 credits**

Continues study of the Flash software introduced in AG 3050, which is dedicated to the general development of Web site and multimedia presentation design. Focuses on the development of Flash-based Web sites and animation. Students extend the capabilities of this program as a Web development tool and the possibilities as an animation film-making tool as well. By achieving higher level skills in this program, students create more vibrant and interactive Flash-based Web sites and animation. Covers the Web related techniques of other programs such as Dreamweaver, Photoshop, ImageReady, Illustrator, and Swift 3D to maximize the visual effects. Falls. *Prerequisite(s)*: AG 3050.

**AG4370 Graphic Design IV 3 credits**  
Advanced work. Understanding of graphic artwork reproduction processes is emphasized. Professional problems/opportunities as a practicing professional designer are considered. Opportunities for actual client-designer projects are sought. Additional course fee required. Springs. *Prerequisite(s)*: AG 3360.

**AG4380 Graphic Design V 3 credits**  
Designed to prepare students in all areas of their portfolio and professional career development. Includes portfolio organization/assessment, job market possibilities, resume and cover letter writing, making effective presentations, pricing and selling work and guidelines and ethics in graphic design. Covers the planning stages of the Senior Design show and allows for initial research and ideation studies toward the final design project (to be completed in the Spring semester during Graphic Design VI). Workshops, lectures and presentations are given in class by design professionals intended to broaden the student's scope of knowledge for the potential of their skills in the marketplace, as well as giving them insight into the profession as a whole. Designers, photographers, art directors and former students who are now working in the field are among the people that will be tapped in order to make these presentations possible. Additional course fee required. Falls. *Prerequisite(s)*: application to and acceptance by the BFA Committee.

**AG4390 Graphic Design VI 3 credits**  
Allows students to begin the execution stage of the rough layouts that were completed in Fall semester of ideas considered for their individual final projects. These projects are developed and finished over a 10 week period, allowing four weeks for the students to mount artwork and prepare for their final Senior Show. Students are expected to meet in assigned teams to make both thematic and aesthetic decisions concerning the presentation of the show to the public. A senior "show coordinator" is elected by the students to be the contact person working between the students and faculty members. The Senior Show is visible evidence and a culmination of all coursework and projects that have been completed by the students in their educational experience in the Graphic Design program. Additional course fee required. Springs. *Prerequisite(s)*: AG 4380 and application to and acceptance by the BFA Committee.

**AG4550 Special Problems in Graphic Design 3 credits**  
Designed for students who have completed four semesters of work in Graphic Design, so that these students can continue their work at an advanced level (up to six credits). *Prerequisite(s)*: AG 2350, AG 3300, AG 3360, AG 4370 and permission of the instructor.

**AG4900 Internship 1–6 credits**  
Designed to give students a culminating educational experience within a wide range of practical on-the-job work experiences in the selected concentration. Commitment includes a negotiated number of hours per week and regular evaluation by Department Internship advisor. The internship is in agencies that are approved, supervised and evaluated by the Department. *Prerequisite(s)*: senior status; minimum 2.30 cumulative GPA and minimum 2.50 major GPA; all required courses in art area for major completed; approval of Department Chair, Departmental Review Committee and Department Internship advisor.

**AG4910 Independent Study in Graphic Design 1–4 credits**  
Advanced work in a limited area of graphic design, developed and executed in consultation with an Art Department faculty mentor. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: senior standing.

## AH—Art History

**AH1110 Survey of Art I 3 credits**  
An introduction to the appreciation and understanding of architecture, sculpture and painting in relation to the Western cultural heritage from prehistoric times to the late Medieval period. Falls. (ARTS)

**AH1120 Survey of Art II 3 credits**  
An introduction to the appreciation and understanding of architecture, sculpture and painting in relation to the Western cultural heritage from the Renaissance to the present. Springs. (ARTS)

**AHDI1200 Exploring Art: Temples and Treasures 3 credits**  
Employing works of architecture, sculpture, painting and the decorative arts, explores the twin variables of word and time in shaping varying past and present worldviews. Beginning with the arts of preliterate groups and continuing through the early Renaissance in Northern Europe (c. 1500), examines such topics as writing and symbol, text and image, myth and ritual, history and memory, and cultural defining moments to bring awareness to the power of images as potent historical, political and cultural markers resonating from the past into the present. Students are challenged to understand and explain how the past was/is always "the present" and provides connective links between times and cultures. Falls. (ARTS)(PPDI)

**AHDI1210 Exploring Art: Revelations and Revolutions 3 credits**  
Beginning with the Early Modern period (ca. 1500) and continuing to the present, examines

central events that allow us to consider the past and present from the context of a selection of "pivotal moments." A selection of cultural defining moments are selected in order to bring awareness to the power of images as potent historical, political and cultural markers resonating from the past into the present. Students are challenged to understand and explain how the past was always "the present;" how events in the past were perceived and recorded; how worldviews shift and influence both the recording and later interpretation of the past; how connecting the past with the present brings understanding and insight to events relevant to students' lives. Springs. (ARTS)(PPDI)

**AH2700 Frameworks of Art: 1900–Present 3 credits**  
An introduction to international developments in modern and contemporary art from 1900 to the present. Particular attention given to the relationship between art and culture. Falls and Springs. *Prerequisite(s)*: AH 1120. (WRIT)(WRCO)

**AH3160 Museum Studies I 3 credits**  
An introduction to American museums and the various tasks and responsibilities of museum professionals. Diversity is addressed through study of the history, theory and practice of American museums and controversies that surround them. Falls. (DICO)

**AH3170 Museum Studies II 3 credits**  
An in-depth study of professional art museum practices. Emphasizes the practical aspects of planning, designing and mounting exhibitions as well as developing educational programming, funding and fund-raising. Field trips and guest speakers reinforce class experiences. Springs.

**AH3450 Architects and Society Since 1900 3 credits**  
An examination of major architects, architectural principles, criticism defining the built environment from Art Nouveau to the present. Selected architects include Wright, LeCorbusier, Kahn, Venturi, Scott-Brown and Koolhaas. Such significant architectural problems as urban planning and housing are considered within the context of social, economic and technological change. Unscheduled.

**AH3500 The World of the Crusades 3 credits**  
Provides students with an appreciation of the medieval period (ca. 1096–1300) with emphasis on the Crusades. Considers medieval Christian, Muslim and Jewish religion, art and culture in order to provide a basis for understanding their significant implications in the contemporary world of artistic, cultural and political events. Considers these themes through the lens of primary documents both artistic and textual. Perspectives inte-

grated: ARTS, HIST, LITY. Fall of even years.  
*Prerequisite(s)*: junior status. (INTG)(GACO)  
(INCO)

**AH3530 Arts of the Far East 3 credits**  
Ranging from Neolithic cultures to the contemporary urban present, studies important themes, styles, periods and methodology of Chinese and Japanese art. Although consideration is given to principal works of sculpture, bronze, painting, ceramics, jade and architecture, emphasis also is given to the historical foundation and religious beliefs informing the visual culture of China and Japan. In particular, Buddhism is examined as a unifying philosophical and artistic theme. In providing such connections, develops deeper insight into the heritage which accounts in part for the cultural fabric of, and societal issues confronting, present day China and Japan. Falls.  
*Prerequisite(s)*: junior status. (GACO)(INCO)

**AH3540 Art and Ideas in the 19th Century 3 credits**  
Examines important artists, major artistic movements, critical issues and the literature and criticism of art during an extraordinarily dynamic and volatile period—the later 18th and 19th centuries (c. 1770-1900). Although consideration is given to such defining individuals as David, Manet and Gauguin, equal emphasis is accorded the historical, scientific/technological and social ideas which helped reframe conceptions of the artist, the arts, society and the world in general. Newer, critical approaches in art history including feminism, ethnicity/race and cultural studies are explored as well to challenge students to understand the multiple lenses by which art historians perceive, define and interpret this engaging period, both in Europe and in European colonies. Fall of even years.  
*Prerequisite(s)*: junior status. (GACO)(INCO)

**AH3600 Arts of the United States 3 credits**  
Examines significant developments in North American painting, sculpture, architecture, prints, photography and the decorative arts from the Colonial period (c. 1600) through the 1930s. Presentation is organized around the sequence of period styles; emerging artistic themes and types; revealing issues of class, gender and race or ethnicity; and the changing context (historical, political, social, economic, cultural) which informs the arts. Newer, critical approaches in art history including feminism and cultural studies are explored as well to acquaint students with the multiple perspectives which can be applied to art historical problems. Springs. (DICO)

**AH3620 Mesoamerican Arts: Maya to Frida Kahlo 3 credits**  
Examines the Pre-Columbian history and culture of the Maya and Aztec civilizations as a foundation for a study of the resurgence of the mural tradition in post Colonial Mexico during

the first half of the 20th century. Special consideration is given to the art and politics of Diego Rivera, Jose Clemente Orozco, and David Alfaro Siqueiros as well as the impact and legacy of Pre-Columbian arts on such figures as Frida Kahlo and Frank Lloyd Wright. Springs. *Prerequisite(s)*: junior status. (GACO) (INCO)

**AH3710 Ancient Art 3 credits**  
The art and architecture of the ancient world from the Old Kingdom in Egypt to the fall of Rome. Concentration on the sculpture and architecture of Classical Greece and Imperial Rome. The significance of antique art for later European and American art. Fall of odd years.

**AH3720 Medieval Art 3 credits**  
Acquaints students with the heritage of architecture, sculpture, painting and the minor arts of the medieval past. Organized in a lecture/seminar format with emphasis on presentations and class discussion. Both the religious and the secular worlds of the period are examined through an interpretive study of important monuments, objects and documents. Enriched by the events of the annual PSU Medieval and Renaissance Forum. Springs.

**AH3730 Renaissance Art in Southern Europe 3 credits**  
An examination of the arts in Southern Europe from 1350–1600, a period of exceptional historical, religious, scientific, social and artistic change which witnessed the development of early modern ideas about humanity and the world. Consideration of the “new worlds” opened by the Renaissance—the exploration of the Americas and the impact of the Islamic heritage—provides a broadened foundation and additional perspective to understand and interpret the painting, sculpture, architecture and prints during the age of Botticelli, Michelangelo and Titian. Fall of odd years. *Prerequisite(s)*: junior status. (GACO) (INCO)

**AH3740 Baroque Art 3 credits**  
The arts of Europe in the 17th and early 18th century. Focus on the sculpture and architecture of Bernini and the painting of Caravaggio, Rubens and Velazquez. Special consideration of Rembrandt and the development of an independent Dutch school of painting. Spring of even years.

**AH3750 Women, Art, and Society 3 credits**  
An art historical survey from the Middle Ages to the present that considers women artists in history and the depictions of women within the context of the history of art. Springs. (DICO)

**AH4100 Contemporary Art Seminar 3 credits**  
Readings and discussions on the theory of contemporary art. Students explore the fundamental theoretical documents of 20th century art. The basic theories and concepts of contemporary art are examined in relation to an artist's individual struggle with a specific problem or a broad ideology of a group manifesto. Form and subject matter, social and cultural ideals and the nature of the creative experience are also studied. Falls.  
*Prerequisite(s)*: junior status. (INCO)

**AH4500 Special Topics in Art History 3 credits**  
Specialized topics in art history not normally covered in depth in other art history courses. Repeatable with a different topic.

**AH4880 Art History Internship 1–6 credits**  
Designed to give students a culminating experience within a range of practical settings related to the art historical profession. Internships require a negotiated number of hours per week and regular evaluation by a supervisor. Repeatable for a maximum of six credits. Approval required of the Art History Internship advisor and the Department Chair.  
*Prerequisite*: junior status.

**AH4910 Independent Study in Art History 1–4 credits**  
Advanced work in a limited area of art history, developed and executed in consultation with an Art History faculty mentor. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: senior standing.

## AN—Anthropology

**AN2210 Cultural Anthropology 3 credits**  
An introduction to the study of people and cultures around the world. A brief survey of the four major divisions of anthropology (archaeology, cultural, physical, linguistics) is followed by a comprehensive discussion of the concept of culture and its technological, social and ideological components. Falls and Springs. (GLOB)(GACO)

**AN2250 Introduction to Archaeology 3 credits**  
An introduction to archaeology (prehistory/history) including a survey of scientific methods used, core concepts, a brief outline of the prehistoric developments of the human species and the archaeological perspective on human behavior in the distant and more recent past. Falls. (SPSY)

**AN2290 Great Discoveries in Archaeology 3 credits**  
Examines some of the greatest discoveries made at archaeological sites throughout the world. This overview of world prehistory



emphasizes how civilization arose independently in several parts of the world, but it also presents some of the greatest discoveries from later time periods. Demonstrates the types of questions that archaeologists ask and shows how cultures are reconstructed using the fragmentary remains in the archaeological record. Springs. *Prerequisite(s)*: AN 2210 or AN 2250.

**AN2300 Introduction to Physical Anthropology 3 credits**

A scientific examination of humans as biological organisms. Surveys current research on (1) evolutionary theory and principles, (2) introductory Mendelian, molecular and population genetics, (3) human biological adaptation and diversity, (4) nonhuman primate biology and behavior and (5) human and nonhuman fossil record. Humans are members of the Kingdom Animalia and the Order Primates and thus share many features with other animals, particularly the other Primates. This relationship is explored, both as to shared features and those which are unique to humans. Falls and Springs. (SCIE)

**AN2310 Physical Anthropology Laboratory 1 credit**

An introduction to the laboratory methods of physical or biological anthropology. Major areas include heredity, skeletal biology, human biological variation and fossil primates. Falls and Springs. *Prerequisite(s)*: AN 2300 or concurrent with AN 2300. (SLAB)

**AN3030 Ancient Egypt—Land of the Pharaohs 3 credits**

Examines archaeological evidence for the rise of civilization in Egypt. Topics include the history of exploration, art and architecture, social history, mummification, burial rites and gods. Emphasis is on pyramids, the Valley of the Kings, the tomb of Tutankhamun, the Temples of Karnak and Luxor, as well as some of the latest discoveries. Also examines popular misconceptions about Egypt. Fall of odd years. *Prerequisite(s)*: AN 2210 or AN 2250.

**AN3040 Mexican Prehistory 3 credits**

Examines the archaeological and ethnohistorical data for the existence of high civilizations in Mesoamerica such as the Olmec, Maya and Aztec. Traces the prehistory from earliest people into the historic era of Spanish conquest and domination. Fall of even years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3050 Peoples and Cultures of the Caribbean 3 credits**

Explores the cultural diversity of West Indian Island societies. Special topics include subsistence horticulture and plantation economies, family and village structure, ethnic diversity, development and nationalism and folk culture and health. Spring of odd years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3110 Cultural Ecology 3 credits**

Examines culture as a human adaptation to nature from the Pleistocene to the present. Case studies demonstrate success and failure of various societies in their adaptation to and impact on their environments. Emphasis is on present-day traditional societies as well as cultural ecological problems facing certain third world countries and industrial nations. Demographic pressures, environmental degradation and climate change are discussed. Springs. *Prerequisite(s)*: AN 2210.

**AN3170 Anthropology of Conflict and Law 3 credits**

A cross-cultural study of the nature of conflict and of dispute settlement processes. Selected topics include the impact of "customary law" in emerging third world nations and alternatives to formal legal process in the United States. Spring of even years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3190 Anthropology of the Pacific 3 credits**

Focuses on the ethnic areas of Oceania which include Polynesia, Micronesia and Melanesia. The varied cultures in the area are considered through an examination of ecology and economics, social structure and process and religion and ideology. The relationships between these phenomena and the rapid rate of social, economic and political change are discussed in depth. Spring of even years. *Prerequisite(s)*: AN 2110 or SO 2220.

**AN3200 Anthropology of Religion, Ritual, and Myth 3 credits**

Explores human belief systems through analysis of selected religions, rituals, myths, legends, and folktales cross-culturally. Examines various anthropological, Freudian, Jungian, and symbolic interpretations of the meanings and uses of these traditions from selected areas, such as Africa, Oceania, Asia, Europe, North or South America. Selected topics include shamanic traditions, voodoo and Santeria, creation myths, legends of heroes and heroines, the motifs in folktales, with a limited section on religions of the Great Traditions. Falls. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3210 Topics in Anthropology 3 credits**

Examines specialized areas in anthropology which are not covered in regularly scheduled courses. Occasionally. *Prerequisite(s)*: AN 2210.

**AN3220 Anthropology of Europe 3 credits**

Examines the diverse cultures of Mediterranean, Eastern and Northern Europe. The varied ecology and the economic, social, political and religious orientations of European ethnic groups are explored in depth. Covers historical and current processes of European disintegration and

integration. Spring of odd years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3260 Historical Archaeology 3 credits**

Introduces students to the study of historical archaeology, explores various topics from earliest colonial settlement through to artifacts of today and exposes one to the different techniques and methods used. Field trips and some outdoor classes are part of the course. Concentrates on the New England region. Spring of even years. *Prerequisite(s)*: upper-level student.

**AN3300 North American Prehistory 3 credits**

Examines the diverse ancient societies of North America, from before 12,000 BC up until European contact. Topics include the mound builders, the pueblos of the Southwest and the prehistoric people of New England. Special emphasis is given to archaeological sites in New Hampshire and there will be opportunities to handle local artifacts in the classroom. Spring of odd years. *Prerequisite(s)*: AN 2210 or AN 2250.

**AN3400 Anthropology of Sub-Saharan Africa 3 credits**

An anthropological survey of several sub-Saharan societies (including Zimbabwe, Kenya and Cote d'Ivoire). Topics include: social, economic and political structures of selected African cultures before European intervention, consequences of that European intervention on present-day African societies, kinship, marriage, trade, markets and religion. Spring of even years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3410 Natives of North America 3 credits**

Discusses and analyzes traditional Indian cultures from an anthropological perspective which includes patterns of subsistence, social organization and ideology. Culture change, conflict and the contemporary status of native groups are considered within the context of national political and legal policies. Falls. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3500 Illness, Wellness, and Healing 3 credits**

Concepts of illness, wellness, and healing reflect the societies and cultures in which they are found. Compares ways in which a variety of Western (e.g., France, Germany, United States) and non-Western (South American, African) societies and cultures think about and institutionalize health and illness. Selected topics include: changing health and nutritional status from human prehistory to the present, social and cultural definitions of health and illness, ritual healing practices, ethnomedicine, the relationships of social organization and stratification to health and illness; and the social and personal construction of medical knowledge. Not open to students who

have taken Medical Anthropology. Fall of odd years. *Prerequisite(s)*: AN 2210 or SO 2220. (WECO)

**AN3520 Economic Anthropology 3 credits**  
Explores the production and exchange of material goods in food-foraging, tribal, chiefdom and state societies. Examines both formal economic and anthropological economic theories in order to understand non-Western exchange systems as well as Western industrialization, modernization and development and their impact on both traditional and developing societies. Case studies illustrate the wide variety of economies and their accompanying systems of social and symbolic relations. Fall of even years. *Prerequisite(s)*: AN 2210 or SO 2220.

**AN3600 Bones, Bodies, and Disease 3 credits**  
An introduction to Forensic Anthropology, which is the scientific study of the human skeleton and its application to the law. This includes the study of age, gender, stature, abnormalities, disease, pathologies, and trauma, along with all of the other evidence that can be learned from the study of human remains. Intensive handling and analysis of human bones. Springs. *Prerequisite(s)*: AN 2300.

**AN3900 Applied Anthropology 3 credits**  
Examines the dynamics of sociocultural change and applies anthropological concepts and methods to contemporary human problems. Spring of odd years. *Prerequisite(s)*: AN 2210.

**AN4100 Anthropological and Sociological Theory 3 credits**  
Social theory helps us to understand society and how it works. It also provides frameworks for developing methodology for anthropologists and sociologists when conducting research. Looks at the connections between theories and methods (or practice) and analyzes major classical and modern theorists from Durkheim and Weber to Malinowski, Goffman and Geertz. Falls of odd years. Last offering Fall 2011. *Prerequisite(s)*: AN 2210 or SO 2220. (WRCO)

**AN4410 Methods of Social Research 3 credits**  
Purpose: (1) to prepare students with the basic ability to design research and implement an actual study of social phenomena; (2) to enable students to become more astute and critical consumers of social research studies. Skills learned include theory application and construction, operationalizing variables, evaluating strengths and weaknesses of research methodologies, determining causality, sampling, hypothesis formulation and testing, data collection, analysis and depiction, and proposal writing. May be taken as SO 4410.

Falls. *Prerequisite(s)*: MA 2300 or SS 3700 or SW 3700.

**AN4600 Seminar: Theory and Practice 4 credits**  
Capstone course for majors; provides an overview of anthropological methodology and theory. Heavily emphasizes research and the practical applications of anthropology. Springs. *Prerequisite(s)*: (AN 4400 or SO 4400) and junior or senior standing as a major. (WRIT)(WRCO)

**AN4610 Internship 1-12 credits**  
Students engage in work programs and thereby apply knowledge gained from major and minor courses, areas or concentrations. Qualifications to be an intern are determined by the Department Chair and a faculty member who acts as a supervising professor. Once placed, student interns have both an immediate supervisor and a supervising professor. With permission.

**AN4910 Independent Study 1-3 credits**  
Provides a more intense background in some aspect of anthropology through reading and research, supplementing previous courses or broadening the student's knowledge in some subject area not presently covered by AN courses. Consent required of the instructor who will supervise the independent study and the Department Chair.

## AP—Adventure Education

**AP2010 Foundations of Adventure Education 3 credits**  
An introduction to the professional expectations and opportunities for the adventure educator. Topics include the rationale and benefits of adventure education, clients and settings, therapeutic adventure, professional preparation, public land resources, environmental issues and trends in adventure education. Additional course fee required. Falls. *Prerequisite(s)*: Adventure Education majors and minors only.

**AP2210 Adventure Education Teaching Theories and Methods 3 credits**  
Review of pertinent learning theories and teaching methods used in Adventure Education. Topics include children and adolescent development; lesson design; creating engaging and experiential lessons; instructional skills; physical, cognitive and affective methods of instruction; class and group management; and assessment of learning. Springs. *Prerequisite(s)*: Adventure Education majors and minors only.

**AP2300 Top Rope Rock Climbing 3 credits**  
Introduces students to the skills and safety systems associated with institutional rock climbing, including management of rock climbing site, belaying, building climbing anchor sys-

tems and performing basic rescues. Focuses on natural history facts relevant to rock climbing. Additional course fee required. Falls and Springs. *Prerequisite(s)*: Adventure Education majors and minors only.

**AP2400 Paddling Fundamentals 3 credits**  
Introduces students to the skills of flat water and moving water canoeing. Focuses on topics and skills such as: selection and use of equipment, tandem canoe paddling skills development and safety procedures and group management relevant to canoeing. Focuses on natural and human history facts relevant to canoeing. Additional course fee required. Falls and Springs. *Prerequisite(s)*: Adventure Education majors and minors only.

**AP3100 Wilderness Expedition 4 credits**  
An in-depth coverage of the planning, preparation, safety, technical and environmental skills of extended backcountry travel. Students plan, organize and participate in a series of wilderness trips lasting from three to 12 days. Topics include Leave No Trace backcountry travel, meal planning and preparation, stove use, campsite selection, expedition technology, map and compass orienteering, route finding, weather prediction and group management. Students must have proper personal clothing and equipment for extended backcountry travel. Additional course fee required. Springs. *Prerequisite(s)*: AP 2010 and AP 2210; Adventure Education majors only. (TECO)

**AP3101 Immersion Wilderness Expedition 4 credits**  
An in-depth coverage of the planning, preparation, safety, technical and environmental skills of extended backcountry travel. Students plan, organize, and participate in a series of wilderness trips lasting from three to 12 days. Topics include Leave No Trace backcountry travel, meal planning and preparation, stove use, campsite selection, expedition technology, map and compass orienteering, route finding, weather prediction, and group management. Students must have proper personal clothing and equipment for extended backcountry travel. Additional course fee required. Falls. *Prerequisite(s)*: AP 2010 and AP 2210. *Corequisite(s)*: AP 3301, AP 3321, and AP 3401. (TECO)

**AP3110 Challenge Course Fundamentals 3 credits**  
Introduces students to the use of a variety of low and high challenge course elements for intrapersonal and interpersonal skill development. Focuses on developing instructional and risk management skills on a challenge course environment. Falls and Springs. *Prerequisite(s)*: AP 2210 and AP 2300.



**AP3300 Adventure Leadership****and Group Management 4 credits**

The theory and application of outdoor leadership, including program design, judgment and decision making, risk management, leadership models and styles. Models and methods of outdoor and experiential education. How to present and teach skills and concepts in, about and through the outdoors. May be taken as part of the Immersion Semester, for which students must apply for admission. When taken as part of the Immersion Semester, there is a course fee. Springs. *Prerequisite(s)*: AP 2010 and AP 2210.

**AP3301 Immersion Adventure Leadership and Group Management 4 credits**

The theory and application of outdoor leadership, including program design, judgment and decision making, risk management, leadership models and styles. Models and methods of outdoor and experiential education. How to present and teach skills and concepts in, about, and through the outdoors. Additional course fee required. Falls. *Prerequisite(s)*: AP 2010 and AP 2210. *Corequisite(s)*: AP 3101, AP 3321, and AP 3401.

**AP3310 Lead Rock Climbing 3 credits**

Advanced course focusing on selection and placement of protection gear, route finding, lead climbing and belaying, multiple pitch climbing, advanced anchor building, rescue systems and climbing instructional strategies. Additional course fee required. Falls. *Prerequisite(s)*: AP 2210, AP 2300 and AP 3300.

**AP3320 Adventure Education Philosophy and Theory 3 credits**

An exploration of the background, philosophical basis, ethical issues, research and theories of adventure and experiential education. Explains the “why” behind the “what” adventure educators do. Students apply experiential education philosophy and theory to help co-create the structure for this course. Students develop in writing their own personal philosophy of adventure education. Springs. *Prerequisite(s)*: AP 2010, AP 2210 and AP 3100 (may be concurrent). (WRIT)(WRCO)

**AP3321 Immersion Adventure Education Philosophy and Theory 3 credits**

An exploration of the background, philosophical basis, ethical issues, research and theories of adventure and experiential education. Explains the “why” behind the “what” adventure educators do. Students apply experiential education philosophy and theory to help co-create the structure for this course. Students develop in writing their own personal philosophy of adventure education. Falls. *Prerequisite(s)*: AP 2010, AP 2210, and

AP 3100 (may be concurrent). *Corequisite(s)*: AP 3101, AP 3301, and AP 3401. (WRIT)(WRCO)

**AP3400 Wilderness First Responder 4 credits**

Provides the knowledge needed to handle medical emergencies requiring extended care in remote settings. Emphasis is on prevention, decision-making and treatment. Students who successfully complete the course and pass the WFR exam will receive a Wilderness First Responder certificate good for three years. Students will also have an opportunity to receive CPR certification. Taught using a combination of lecture, scenarios and rescue simulations. Additional course fee required. Springs.

**AP3401 Immersion Wilderness First Responder 4 credits**

Provides the knowledge needed to handle medical emergencies requiring extended care in remote settings. Emphasis is on prevention, decision-making, and treatment. Students who successfully complete the course and pass the WFR exam receive a Wilderness First Responder certificate, good for three years. Students also have an opportunity to receive CPR certification. Taught using a combination of lecture, scenarios, and rescue simulations. Additional course fee required. Falls. *Prerequisite(s)*: AP 2210. *Corequisite(s)*: AP 3101, AP 3301, and AP 3321.

**AP3410 Whitewater Paddling 3 credits**

Introduces techniques and procedures to conduct river kayaking programs in moving and whitewater environments. Includes advanced rescue techniques, river kayaking paddling techniques and paddling instructional strategies. Additional course fee required. Falls. *Prerequisite(s)*: AP 2400 and AP 3300.

**AP3500 Adventure Processing and Facilitation 3 credits**

Provides the skills necessary for facilitating a variety of client groups-educational, professional/corporate and therapeutic-indoor and outdoor experiential and adventure programs. Includes group development stages, group discussion leading, active listening, debriefing, frontloading, metaphors and transfer of client learning. Students develop and facilitate a program with a client group. Additional course fee required. Springs. *Prerequisite(s)*: AP 2210.

**AP3600 Outdoor Skills Clinical 3 credits**

Designed to assure basic skills competencies in climbing, paddling, camping, and land navigation. Students are tested on a series of basic outdoor skills. No formal instruction is provided. Pass/No Pass. Falls and Springs. *Prerequisite(s)*: AP 2300, AP 2400 and (AP 3100 or AP 3101).

**AP3700 Winter Backcountry Travel 3 credits**

Equipment, techniques and instructional strategies for travel and camping in winter conditions on snowshoes and backcountry skis. Includes extended cold weather survival methods, building snow shelters, winter expedition camping and trip planning. Additional course fee required. Springs. *Prerequisite(s)*: AP 2210, AP 2300, and (AP 3300 or AP 3301); Adventure Education majors or minors; proper clothing for winter backcountry travel.

**AP3810 Alpine Mountaineering 3 credits**

Knowledge, skills and attitudes of basic mountaineering, including snow, ice and alpine climbing, avalanche awareness, use of technical equipment including crampons, ropes and ice axes for snow and glacier travel and crevasse rescue. Additional course fee required. Springs. *Prerequisite(s)*: AP 2210, AP 2300, (AP 3300 or AP 3301), and (AP 3400 or AP 3401); Adventure Education major or minor; proper clothing for winter backcountry travel.

**AP3880 Adventure Education Practicum 1-3 credits**

Designed to give students a practical experience in adventure education. In consultation with an Adventure Education faculty member, the student is placed with an approved program or organization in order to gain experience with one or more professionals. The Practicum requires 45 hours of work per credit. May be repeated for credit. Pass/No Pass. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: junior or senior status; minimum 2.00 cumulative GPA; approval of the instructor or Department Chair.

**AP3890 Adventure Education Clinical 1-3 credits**

Provides students practical experience with an adventure education program or organization. In consultation with an Adventure Education faculty member, the student is placed with an approved program or organization, typically outside the PSU setting, in order to gain experience with one or more professionals. The Clinical requires 45 hours of work per credit. Repeatable for a maximum of six credits. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: Adventure Education major; completion of 27 credits in Adventure Education courses; completion of 30 days of documented leadership and instruction experience; approval of the instructor or the Department Chair.

**AP3950 Special Topics in Adventure Education 3 credits**

Each year focuses on a different adventure topic, skill and/or environment. Topics may include therapeutic adventure, multi-cultural and international recreation and adventure pursuits, and eco-psychology in outdoor

adventure. Skills include wilderness search and rescue, desert and canyon backpacking and sea kayaking conducted as a field-based expedition during Winterim or Spring Break. To familiarize students with new and unique adventure environments, may involve traveling to a distant location, such as Baja, Mexico or the southwest United States. There is a course fee for field-based skill topics. May be repeated more than once with a different topic. Springs. *Prerequisite(s)*: AP 2210 and permission of the instructor; Adventure Education majors or minors; proper clothing for the course environment.

**AP4300 Teaching Assistantship in Adventure Education 4 credits**

Students who have demonstrated a high level of proficiency serve as assistant instructors in a selected Adventure Education course. Students take active leadership roles; planning, sequencing and teaching adventure topics and skills; develop a comprehensive risk management plan. Students receive supervision and feedback on their leadership, instructional planning and teaching skills. The Teaching Assistant may need to be involved in field-based trips lasting three to 15 days and should, therefore, schedule accordingly. May be repeated for a maximum of eight credits. Falls and Springs. *Prerequisite(s)*: Adventure Education major; completion of at least 27 credits in Adventure Education courses including (AP 3300 or AP 3301) and AP 3600; permission of the instructor.

**AP4600 Organization and Administration of Adventure Education 3 credits**

Capstone course in which students synthesize their experience in adventure leadership, instruction and programming to explore the details of managing an adventure program. Topics include risk management for the administrator; legal issues; accreditation standards; staff recruitment, hiring and training; marketing; fiscal management. Additional course fee required. Springs. *Prerequisite(s)*: Adventure Education major; completion of at least 27 credits in Adventure Education courses.

**AP4880 Adventure Education Internship 6–12 credits**

A culminating experience for the Adventure Education major. In consultation with an Adventure Education faculty member, the student is placed with an approved program or organization outside the PSU setting in order to gain a variety of on-the-job professional experiences. Each internship credit represents 45 hours of experience, so students should plan for a minimum of seven weeks of full-time experience. Some internships may include housing, meals and/or a small stipend. Students are required to pay a liability insurance fee. Falls and Springs.

*Prerequisite(s)*: AP 3600; a minimum grade of C in AP 4300; completion of at least 40 credits in Adventure Education courses; completion of 60 days of documented leadership/instruction experience.

**AP4910 Independent Study 1–3 credits**  
A student-initiated research project on a selected topic agreed to by a Department faculty tutor. Consent required of the instructor who will supervise the independent study and the Department Chair.

## AR—Fine Art

**AR1040 Fundamentals of Art: Color and Design 3 credits**

An exploration of basic design concepts of balance, pictorial space and composition using a variety of media. Also, color theories are discussed in class and applied to weekly assignments preparing students for the intelligent use of color as a design element. Falls and Springs.

**AR1050 Fundamentals of Art: Form in 3-D 3 credits**

Foundation course in 3-dimensional visual art. It combines the study of the basic elements, principles and practices of form and design in three dimensions with a series of hands-on problem-solving projects. Last offering Spring 2010.

**AR1060 Fundamentals of Art: Form in 3D 4 credits**

Foundation studio course in three-dimensional visual art. Combines the study of the basic elements, principles, and practices of form and design in three dimensions with a series of hands-on problem-solving projects. Introduces students to a wide range of materials and techniques and to a variety of issues in contemporary art. Not open to students who have earned credit for AR 1050. Additional course fee required. Falls and Springs.

**AR1100 Drawing I: Object 3 credits**

Students are introduced to selective vision, basic composition and artistic presentation. Through practice they will begin development of the skill of intense scrutiny and organizing subjects in space. Media includes pencil, ink and charcoal. Additional course fee required. Last offering Spring 2010.

**AR1120 Drawing: Objects, Interiors, Landscapes 4 credits**

Establishes the technical, aesthetic, and conceptual foundation of the discipline of drawing. Through observational drawing, students expand their understanding of visual problem-solving relating to objects, interior spaces, and landscapes. Introduces color. Not open to students who have earned credit for AR 1100. Additional course fee required. Falls and Springs.

**AR1140 Drawing II: Object 3 credits**

Continues students' study of drawing composition, division of space, laws of perspective, line quality and value. Color concepts are introduced as well as a greater variety of drawing media. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1100.

**ARD1200 Creativity and the Visual World 3 credits**

Explores the relationship between the creative process, self-expression and communication, through the visual arts. The creative process is first explored broadly as a problem-solving tool applicable to all fields of human endeavor. Students then experience the creative process in studio explorations and the creation of art works with an emphasis on "process" rather than "product." The language of art is studied through consideration of the formal elements and the organizing aesthetic principles. Students consider how these affect visual unity and communication in contemporary and historical art works. Broadens the basis for student self-confidence in creative skill development, originality and critical thinking/writing, the use of information technology resources and appreciation of the visual arts as a powerful vehicle for communication. Additional course fee required. Falls and Springs. (ARTS)(CTDI)

**AR2110 Painting I 3 credits**

An introduction to the basic techniques of painting in oil and acrylic, concentrating on principles of color and light. Using a variety of subject matter, students explore problems of pictorial composition. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1040 and AR 1100.

**AR2190 Sculpture I 3 credits**

An introduction to the basic techniques of sculpture in wood, clay and plaster, concentrating on principles of site, relief, assemblage and figure modeling. Students also explore issues in contemporary sculpture and begin to develop their own sculptural vocabularies. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR1050.

**AR2210 Ceramics: Handbuilding 3 credits**

Basic handbuilding techniques used to create functional as well as non-functional objects. Emphasis on exploring properties of clay and glaze; introduction to principles and potential of visual and expressive design in ceramics. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1050.

**AR2300 Introduction to Printmaking 3 credits**

A generalized introduction to the various methods of printmaking including woodcut,

etching, drypoint, relief, embossing, mono-print and calligraphy. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1040, AR 1050 and AR 1100.

**AR2510 Drawing III: Figure 3 credits**  
Students study the human figure as subject matter and apply their accrued skills in the translation of the human figure from life to compositions in line and tonal value. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1140.

**AR2520 Drawing: Figure in Value 4 credits**  
Students draw the human figure from life and apply their accrued skills in the translation of the human figure to compositions in line and tonal value. As students move from drawing stationary objects to living, moving figures, the sensibility and techniques that led themselves to this challenge are addressed. Developing knowledge and fluency concerning proportion, movement, and anatomical structure is key. As confidence and ability are gained, volume and relating the figure to the surrounding space are addressed. Not open to students who have earned credit for AR 2510. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1100 or AR 1120.

**AR2600 Photography I 3 credits**  
An introduction to photography as a visual art. A study of the camera, film, exposure, developing and printing as well as the history and aesthetics of photography. A camera with a light meter is necessary; a tripod is helpful. Students purchase most of their own supplies. Additional course fee required. Falls and Springs.

**AR3010 Painting: Theory and Process 3 credits**  
An introduction to the basic techniques of painting in oil and acrylic, concentrating on principles of color and light. Using a variety of subject matter, students explore problems of pictorial composition. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1040, (AR 1100 or AR 1120) and (AR 2510 or AR 2520).

**AR3030 Painting II 3 credits**  
A continuation of principles explored in Painting I with an emphasis on painting the human figure. Stresses more advanced study in paint application, color use and compositional structure. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2110.

**AR3040 Painting: Figure in Context 4 credits**  
Continuation of the principles explored in AR 3010. Emphasizes painting the human figure. Stresses more advanced study in paint appli-

cation, color use and compositional structure, as well as personal ideation and conceptual development. Additional course fee required. Not open to students who have earned credit for AR 3030. Springs. *Prerequisite(s)*: AR 2110 or AR 3010.

**AR3060 Foundations of Sculpture: Representing the Body 4 credits**  
Introduction to studio sculpture focusing on how bodies make meaning in art. Considers mimetic and connotative sculptural representations of the body and such topics as: realism and figure modeling; modernism and abstracted depictions of the body; the "body" as a collection of objects that construct the idea of identity; diverse approaches to representing the human form; and the relationship of the viewer's physical body to the work of art. Through the use of varying media, students explore issues in modern and contemporary sculpture and begin to develop their own sculptural vocabularies. Not open to students who have earned credit for AR 3460. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1050 or AR 1060. (QRCO)

**AR3110 Painting III 3 credits**  
An advanced painting course exploring spatial movement and structure utilizing the visual elements of color and light. Emphasizes development of personal imagery and independent problem solving. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2110 and AR 3030.

**AR3120 Painting: Exploring Personal Themes 3 credits**  
An advanced painting course exploring spatial movement and structure utilizing the visual elements of color and light. Emphasizes development of personal imagery and independent problem solving. Additional course fee required. Not open to students who have earned credit for AR 3110. Falls and Springs. *Prerequisite(s)*: (AR 2110 and AR 3030) or AR 3010.

**AR3130 Drawing: Figure in Color 3 credits**  
The study of proportion and the application of the principles of composition in the presentation of the human figure are emphasized as students continue to draw from life. The use of color is introduced. Additional course fee required. Falls and Springs. *Prerequisite(s)*: (AR 1100 or AR 1120) and (AR 2510 or AR 2520).

**AR3140 Drawing: Exploring Style 3 credits**  
Serves as a transition drawing experience that facilitates exploration of various art styles in drawing. The prerequisite drawing courses work primarily from observation of life; whereas, this course gives individuals an opportunity to work with abstraction, expres-

sionism, symbolism, and narrative genres, among others. Additional course fee required. Springs. *Prerequisite(s)*: (AR 1100 or AR 1120), (AR 2510 or AR 2520) and AR 3130.

**AR3160 Foundations of Sculpture: Objects and Ideas 4 credits**  
Introduction to studio sculpture focusing on the artistic possibilities of objects. Considers a range of aesthetic approaches to form, including abstract, representational, non-representational, and postmodern. Focuses on traditional, modern, and contemporary theories and techniques, and covers such topics as: competing definitions of and processes for generating "form"; transforming "real" objects into abstract "art" objects; context, site, and viewer-art relationships; and objects in motion. Through the use of varying media, students explore issues in sculpture and begin to develop their own sculptural vocabularies. Not open to students who have earned credit for AR 2190. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1050 or AR 1060. (QRCO)

**AR3190 Ceramics: Throwing 3 credits**  
Basic throwing with emphasis on skills and design of functional pottery. Introduction to ceramic glaze materials, glaze formulation and kiln firing. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 1050.

**AR3210 Ceramic Design 3 credits**  
Handbuilding and/or throwing. Development of visual and expressive strength in ceramic form. Exploration of relationships between conceptual and/or functional design intentions and manipulation of form. Further development of skills with ceramic media. Preparation of appropriate clay bodies and glazes. Kiln firing techniques. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2210 and AR 3190.

**AR3220 Ceramic Exploration 4 credits**  
Provides experiences with a variety of ceramic materials, methods, ideas, and forms through a series of hands-on assignments. Includes hand-forming processes, sculptural and functional approaches. Provides an introduction to glaze and kiln technology. Includes consideration of historical and cultural origins and development of ceramic art forms as well as contemporary approaches to hand-built ceramic work. Emphasis on understanding the properties of clay and glaze in order to develop greater visual and expressive capabilities in the medium. Not open to students who have earned credit for AR 2210. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1050 or AR 1060.

**AR3230 Ceramic Design:****Potters Wheel 4 credits**

Functional and conceptual design in ceramic artwork made on the potter's wheel. Consideration of the purpose and meaning of the vessel or container form in ceramics, with emphasis on artistic intention, context, craft, and aesthetics. Historical and contemporary approaches are explored in research assignments. Experience with ceramic technology (mixing different clay bodies, glaze mixing, kiln firing) continues as students take their work through the physical stages of the ceramic process. Not open to students who have earned credit for AR 3190. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 1050 or AR 1060.

**AR3250 Professional 2D****Presentation Practices 3 credits**

A comprehensive course that addresses the needs of the artist after graduation. Students learn professional standards for presentation of their artwork. Students learn how to both physically and digitally present their work to the art profession and the public. Additional course fee required. Falls. *Prerequisite(s)*: Art majors. (QRCO) (TECO)

**AR3290 Intaglio 3 credits**

Presents printmaking techniques beyond the introductory level. Stresses individual development of techniques and imagery. Methods utilized include dry point, line etch, burin engraving, aquatint and soft ground. Additional course fee required. Falls. *Prerequisite(s)*: AR 2300 or AR 3300.

**AR3300 Process and Printmaking 3 credits**

A generalized introduction to the various methods of printmaking including woodcut, etching, drypoint, relief, embossing, monoprint and calligraphy. Additional course fee required. Not open to students who have earned credit for AR 2300. Falls and Springs. *Prerequisite(s)*: AR 1040, (AR 1100 or AR 1120) and (AR 2510 or AR 2520).

**AR3310 Lithography 3 credits**

Presents stone lithography techniques including graining, drawing, etching and printing. Methods utilized include gum stencil, crayon, tusche, autographic ink, rubbing ink drawing, transfer paper and counter etch. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2300.

**AR3320 Lithography 4 credits**

Presents stone lithography techniques including graining, drawing, etching and printing. Methods utilized include gum stencil, crayon, tusche, autographic ink, rubbing ink drawing, transfer paper and counter etch. Additional course fee required. Not open to students who have earned credit for AR 3310. Springs. *Prerequisite(s)*: AR 2300 or AR 3300.

**AR3460 Sculpture II 3 credits**

A continuation of Sculpture I, with an emphasis on principles of form, implication, found vs. made, audience reception and site. Students work with metal, found objects and wood and continue to explore issues in contemporary sculpture and further develop their own sculptural vocabularies. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2190.

**AR3510 Multi-Plate Printing 3 credits**

Presents various methods for using polystyrene foam as a block printing medium. Students are taught how to approach this versatile medium in ways that facilitate the creative process. Explores reduction block printing, multi-plate printing and printing over acrylic paint. Falls. *Prerequisite(s)*: AR 2300 or AR 3300.

**AR3520 Drawing: Advanced 3 credits**

Students begin drawing compositions containing and referring to wide-ranging aspects of their environment. The use of more advanced techniques and media are introduced and explored. Additional course fee required. Falls. *Prerequisite(s)*: (AR 1100 or AR 1120), (AR 2510 or AR 2520), and AR 3130.

**AR3560 Sculpture III 3 credits**

A continuation of Sculpture II, with an emphasis on spatial relations, juxtaposition and material connotations. Working with a wide variety of media, students develop their own sculptural ideas and styles and explore their own opinions about issues in contemporary art. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 2190 and AR 3460.

**AR3660 Advanced Sculpture 4 credits**

Emphasizes idea development finding one's own sculptural voice. Students work with a variety of media and continue to explore issues in contemporary sculpture. Not open to students who have earned credit for AR 4420. Additional course fee required. Springs. *Prerequisite(s)*: (AR 1050 or AR 1060), and (AR 3060 or AR 3460), and (AR 2190 or AR 3160).

**AR3900 Practicum 1-3 credits**

Designed to allow students to have a direct working field experience outside the classroom. Commitment includes a negotiated number of hours per week and regular scheduled evaluation by Department Practicum advisor. Agencies must be pre-approved by Department. *Prerequisite(s)*: junior status; minimum 2.30 cumulative GPA and minimum 2.50 major GPA; approval of the Department Chair and the Departmental Review Committee and permission of the Department Practicum advisor.

**AR3910 Photography II 3 credits**

Advanced students explore photography as a means of creative art expression and the role of photography as an independent art medium. Students are expected to provide their own 35 mm camera and purchase most of their own supplies. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 2600.

**AR4060 Painting IV 3 credits**

Students are encouraged to begin developing personal directions in their work, with guidance from the professor. Presents creation and utilization of serial imagery to establish continuity of ideas. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 3110.

**AR4070 Drawing: Personal Voice 3 credits**

Students have an opportunity to pursue individual directions, with the professor's guidance, in an effort to develop ideas and interests that synthesize their previous drawing experiences. Additional course fee required. Springs. *Prerequisite(s)*: (AR 1100 or AR 1120), (AR 2510 or AR 2520), and AR 3130.

**AR4080 Painting: Advanced****Concepts 3 credits**

Students are encouraged to begin developing personal directions in their work, with guidance from the professor. Presents creation and utilization of serial imagery to establish continuity of ideas. Additional course fee required. Not open to students who have earned credit for AR 4060. Falls and Springs. *Prerequisite(s)*: AR 3110 or AR 3120.

**AR4110 Senior Thesis I 6 credits**

For 3D Studio Art BFA majors. Students are required to develop a body of work based upon the exploration of aesthetic concepts relative to thematic material. Students, with a faculty advisor, are expected to do much of the work independently with scheduled critical discussion involving faculty and fellow students. The objectives and progress of the thesis are examined and evaluated by a BFA evaluation committee comprised of the Art faculty. Outside critics will be brought in periodically to offer students a broader diversity of artistic thought. Falls. *Prerequisite(s)*: application to and acceptance by the 3D BFA Committee.

**AR4120 Senior Thesis II 6 credits**

For 3D Studio Art BFA majors. Continuation of Senior Thesis I. Springs. *Prerequisite(s)*: application to and acceptance by the 3D BFA Committee.

**AR4220 Advanced Ceramics 3 credits**

Students are encouraged to pursue individual aesthetic directions in ceramics. Emphasis on visual and conceptual integrity of form. Includes study of related contemporary work



in ceramics. Students prepare clay, glazes and fire kilns. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 3210.

**AR4230 The Art of Ceramics: Studio Artist/Ceramic Scientist 4 credits**

For students who want to take ownership of their artwork in clay from start to finish. Encourages the pursuit of individual directions in ceramic work, while providing in-depth experiences in glaze formulation and chemistry and kiln firing processes. Encourages students, in their artwork, to establish their individual artistic contexts and intentions and to work toward visual and conceptual integrity of form. Experiments in glaze development are undertaken. Students are responsible for glaze missing. Students should be prepared to work in collaboration with other students to share several day-long firing responsibilities during the semester. Not open to students who have earned credit for AR 3210 and AR 4220. Additional course fee required. Falls and Springs. *Prerequisite(s)*: (AR 2210 or AR 3220) and (AR 3190 or AR 3230).

**AR4250 Ceramics Studio: Advanced 4 credits**

For students having completed 12 credits of ceramics. Students focus on individual directions, engage in directed and independent research, address contemporary issues and contexts for ceramic artists and have the opportunity to develop a portfolio of original work. Students mix their own glazes and fire kilns in collaboration with other students. May be repeated with a new body of student work for an additional four credits. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 4220 or AR 4230.

**AR4320 Advanced Printmaking 3 credits**  
Students are given an opportunity for a fuller exploration of an individual approach to printmaking in a preferred medium. Includes study of development in contemporary printmaking. Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 3290 or AR 3310 or AR 3320.

**AR4420 Advanced Sculpture 3 credits**  
Students integrate the conceptual and materials elements they learned in Sculpture I, II and III and apply them towards their own sculptural projects. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 3560.

**AR4510 Painting: Special Problems 3 credits**  
Designed for students who have completed four semesters of work in Painting so that these students can continue their work at an advanced level (up to six credits). Additional

course fee required. Falls and Springs. *Prerequisite(s)*: AR 4080.

**AR4520 Special Problems in Printmaking 3 credits**

Advanced work of unique characteristics in printmaking. Designed for students who have completed four semesters of work in Printmaking so that these students can continue their work at an advanced level (up to six credits). Additional course fee required. Falls and Springs. *Prerequisite(s)*: AR 4320 and permission of the instructor.

**AR4530 Special Problems in Sculpture 3 credits**

Designed for students who have completed four semesters of work in Sculpture; allows advanced students to work with the instructor to design their own assignments and begin to build individual portfolios of sculpture based on their own ideas. May be repeated up to six credits. Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: AR 4420 and permission of the instructor.

**AR4540 Special Problems in Ceramics 3 credits**

Designed for students who have completed four semesters of work in Ceramics so that these students can continue their work at an advanced level (up to six credits). Additional course fee required. Last offering Spring 2010. *Prerequisite(s)*: permission of the instructor.

**AR4550 Special Problems in Ceramics 4 credits**

Designed for students who have completed 12 credits of work in ceramics. Advanced students work with the instructor on specialized topics that are different from, or are in more depth than, the regular curriculum offerings. May be repeated for credit when offered under a different topic. Additional course fee required. Springs. *Prerequisite(s)*: permission of the instructor.

**AR4560 Special Problems in Drawing 3 credits**

Designed for students who have completed four semesters of work in Drawing so that these students can continue their work at an advanced level (up to six credits). Additional course fee required. Falls and Springs. *Prerequisite(s)*: (AR 1100 or AR 1120), (AR 2510 or AR 2520), AR 3130 and permission of the instructor.

**AR4580 Special Problems in Sculpture 4 credits**

Designed for students who have completed three semesters of work in Sculpture; allows advanced students to work with the instructor to design their own assignments and begin to build individual portfolios of sculpture based on their own ideas. May be repeated for up to

eight credits. Additional course fee required. Springs, according to demand. *Prerequisite(s)*: (AR 3660 or AR 4420) and permission of the instructor.

**AR46102D BFA Thesis I 6 credits**

The first half of a year-long capstone experience designed to provide students with the challenge to immerse themselves in independent studio production in the field of their concentration. Requires rigorous studio discipline 16-20 hours weekly, weekly meetings for critical discussion, and field trips to selected exhibits and artists' studios. Thesis I fosters professional studio discipline and the deepening of discipline skills as students begin the process of developing a coherent body of work based upon the exploration of diverse aesthetic concepts, thematic possibilities, personal study, and personal voice. Not open to students who have earned credit for AR 4110. Falls. *Prerequisite(s)*: application to and acceptance by the 2D BFA Committee. *Corequisite(s)*: AR 4800.

**AR46202D BFA Thesis II 6 credits**

Continuation of 2D BFA Thesis I. Students complete the development of a coherent body of individualized work integrating studio expertise, ideation, aesthetic concepts, expressive intentionality, thematic development with each student's emergent artistic voice. Selected work is exhibited in the Senior BFA Thesis Exhibition. Not open to students who have earned credit for AR 4120. Springs. *Prerequisite(s)*: completion of AR 4610 with review and acceptance by the 2D BFA Committee and Thesis instructor.

**AR4700 Special Topics in Studio Art: 3 credits**

An intensive hands-on studio experience with a specialist in a studio area. The area of specialization is determined for each offering of the course. Guest artists are frequently featured, working with or sponsored by a department faculty member. The course usually runs one to two weeks with daily and/or evening sessions. Students may repeat this course when it is offered under a different topic. Division of Continuing Education. Summers. *Prerequisite(s)*: permission of the instructor or department sponsor for a guest artist.

**AR4800 Advanced Studio Seminar 3 credits**

A discussion and critical analysis experience for studio art majors moderated by an active studio artist. Focuses on individual and collaborative research into the progressive art forms and trends of today's art work. Students inform themselves and others as they examine the work of both established and emerging artists. Addresses the integration of undergraduate education with the pragmatic concerns of society as a whole. Draws connec-

tions between fields of knowledge and applies alternative methods of inquiry to resolve questions. Students integrate visual art studio practice, online, print and direct research in contemporary visual culture, studies in art criticism and development of professional business knowledge for the studio artist. Falls. *Prerequisite(s)*: junior status. (INTG)(INCO)

**AR4910 Independent Study in Studio Art 1–4 credits**

Advanced work in a limited area of studio art, developed and executed in consultation with an Art Department faculty mentor. Additional course fee required. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: senior standing.

## AT—Athletic Training

**AT1010 Introduction to Athletic Training I 1 credit**

The first half of a two-semester athletic training sequence emphasizing the development of athletic training skills. Designed to introduce students to the profession of athletic training as well as to begin the development of psychomotor skills in athletic training. Course content stresses athletic training room policies and procedures, universal precautions and wound care; clinical competencies in ice bag/massage, cold/warm whirlpool and hydrocollator use; selected taping and wrapping techniques. A minimum of 40 hours of observation is required in the athletic training room and at practices and games. Falls.

**AT1020 Introduction to Athletic Training II 1 credit**

The second half of a two-semester athletic training sequence emphasizing the development of athletic training skills. Course content includes clinical competencies in blood pressure, splinting, injury reporting/recording and selected taping and wrapping techniques. A minimum of 40 hours of observation is required in the athletic training room and at practices and games. Springs. *Prerequisite(s)*: AT 1010.

**AT2010 Athletic Training Skills I 1 credit**

The first half of a two-semester athletic training sequence emphasizing decision-making skills in the application of theory and skills to practical situations. Designed to coincide with the students' first introduction to clinical practice. Students are introduced to selected organizational and administrative tasks associated with the sports medicine program. Includes selected taping/wrapping/padding techniques for the lower extremity. Falls. *Prerequisite(s)*: current CPR certification.

**AT2020 Athletic Training Skills II 1 credit**

The second half of a two-semester athletic training sequence to coincide with the stu-

dents' first clinical rotation. Emphasizes decision-making skills, selected taping/wrapping/padding techniques for the upper extremity; the presentation of a case study. Springs. *Prerequisite(s)*: AT 2010.

**AT2100 Introduction to Clinical Practice 2 credits**

Seminar style. Introduces athletic training students to the many competencies and proficiencies required in clinical practice. Students engage in experiential learning as an orientation to clinical requirements, guidelines and standards of practice. Includes the introductory use and application of therapeutic modalities and injury tracking software, the implementation of pre-season screening, the collection and dissemination of medical history, consent and waiver information, the writing of injury reports using SOAP notes and exposure to emergency policies and procedures. Students apply what they have learned by completing three, four-week clinical rotations under the direct supervision of a clinical instructor. Students are required to pay a liability insurance fee. Falls.

**AT2250 Prevention and Care of Injuries in Active Populations 3 credits**

An introductory course in athletic training designed to prepare students for further study in athletic training. Topics include the history of athletic training, the sports medicine team, athletic training room organization and administration, pre-participation sport physicals, athletic equipment design and fit, injury mechanisms, recognition and care of injuries, environmental considerations and conditioning programs. Springs. *Prerequisite(s)*: BI 2110.

**AT2750 Clinical Athletic Training I 4 credits**

Designed to provide Athletic Training students with an introductory level hands-on experience with which to understand, recognize, evaluate, and treat athletic injuries using the range of skills required of an athletic training professional. Students complete a minimum of 200 documented clinical hours under the direct supervision of an Approved Clinical Instructor (ACI). Responsibilities reflect an introductory level of cognitive, psychomotor, and affective skills. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: current First Aid and Adult CPR certifications and permission of the instructor.

**AT3010 Clinical Integration I 1 credit**

Designed to help students refine and expand skills, techniques and decision-making skills in the application of theory and in practical situations. Gives students the opportunity to observe other sports medicine professions as they relate to athletic training. Designed to

introduce and evaluate practical and emergency skills as necessary. Students are also required to present an injury case study. Falls. *Prerequisite(s)*: AT 2020.

**AT3020 Clinical Integration II 1 credit**

Designed to help students refine and expand evaluation techniques and decision-making skills in the application of theory. Gives students the opportunity to observe other sports medicine professions as they relate to athletic training. Students are also required to present multiple case studies. Springs. *Prerequisite(s)*: AT 3010.

**AT3250 Injury Assessment I 3 credits**

Examines a systematic approach to orthopedic assessment. Each body section is studied individually, stressing osteology, arthrology, myology, neurology, etiology, pathology and assessment techniques. Covers the lower extremity and lumbar spine. Falls. *Prerequisite(s)*: AT 2250 or CC 2660. *Corequisite(s)*: AT 3260.

**AT3260 Injury Assessment Laboratory I 1 credit**

Provides students hands-on, laboratory experience in orthopedic assessment. Each body section is studied individually, stressing osteology, arthrology, myology and neurology. Stresses the evaluation process for each joint in the lower extremity and lumbar spine. Falls. *Corequisite(s)*: AT 3250.

**AT3270 Injury Assessment II 3 credits**

Examines a systematic approach to orthopedic assessment. Each body section is studied individually, stressing osteology, arthrology, myology, neurology, etiology, pathology and assessment techniques. Covers the upper extremity, cervical spine, head and face, abdomen and thorax. Springs. *Prerequisite(s)*: AT 3250 and AT 3260. *Corequisite(s)*: AT 3280.

**AT3280 Injury Assessment Laboratory II 1 credit**

Provides students hands-on, laboratory experience in orthopedic assessment. Each body section is studied individually, stressing osteology, arthrology, myology and neurology. Stresses the evaluation process for upper extremity, cervical spine, head and face, abdomen and thorax. Springs. *Prerequisite(s)*: AT 3250 and AT 3260. *Corequisite(s)*: AT 3270.

**AT3300 Illness and Disease 3 credits**

Examines the knowledge, skills and values that the entry-level athletic trainer must possess to recognize, treat, refer, when appropriate, the general medical conditions, illnesses and disabilities of athletes and others involved in physical activity. Students learn to communicate effectively, both verbally and in writing, within the discipline of Athletic Training and across disciplines with other members of the allied health and medical communi-



ties and the general public. Fall of even years.  
*Prerequisite(s)*: AT 3250. (WRIT)(WRCO)

**AT3400 Pharmacology for Allied Health Professionals 2 credits**

Examines knowledge, skills and values required of the entry-level athletic trainer on pharmacological applications, including awareness of the indications, contraindications, precautions and interactions of medications and governing regulations relevant to the treatment of injuries to and illnesses of athletes and others involved in physical activity. Springs. *Prerequisite(s)*: Health and Human Performance major and minors only.

**AT3760 Clinical Athletic Training II 4 credits**

Designed to provide the Athletic Training student hands-on experience with which to understand, recognize, evaluate, and treat athletic injuries using the range of skills required of an athletic training professional. Students complete a minimum of 200 documented clinical hours under the direct supervision of an Approved Clinical Instructor (ACI). Responsibilities reflect an intermediate level of cognitive, psychomotor, and affective skills. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: AT 2750; current First Aid and CPR certifications; minimum 2.50 cumulative GPA.

**AT3880 Athletic Training Practicum 1-3 credits**

Provides an opportunity to acquire teaching or clinical experience in Athletic Training, under direct supervision in an approved course, activity or clinical environment. May be repeated for credit. Each credit requires approximately 45 hours of practicum experience. Students are required to pay a liability insurance fee. *Prerequisite(s)*: students must be in good academic standing (no probation), have a faculty sponsor and the approval of the Department Chair.

**AT4010 Seminar in Athletic Training I 1 credit**

Designed to provide a forum for discussion of contemporary issues in athletic training. Presentations are given by students, instructor and guest lecturers. Falls. *Prerequisite(s)*: AT 3020.

**AT4020 Seminar in Athletic Training II 1 credit**

A culminating experience in athletic training which reviews the cognitive, psychomotor and affective domains of athletic training to prepare students for a graduate program, entry-level employment in athletic training and the NATA-BOC examination. Springs. *Prerequisite(s)*: AT 4010.

**AT4100 Administration of Athletic Training 3 credits**

Examines the knowledge, skills and values that the entry-level athletic trainer must possess to develop, administer and manage a healthcare facility and associated venues that provide healthcare to athletes and others involved in physical activity. Provides the knowledge, skills and values that an entry-level athletic trainer must possess to understand professional responsibilities, avenues of professional development and national and state regulatory agencies and standards in order to promote athletic training as a professional discipline and to educate athletes, students of athletic training, the general public, the physically active and associated individuals. Fall of odd years. *Prerequisite(s)*: AT 2750 and junior status. (INCO)

**AT4250 Rehabilitation of Injuries for Active Populations 3 credits**

The theory behind and the application of the various rehabilitation tools (i.e., closed/open kinetic chain activities, manual therapies, aquatic therapy) used in a rehabilitation setting. Emphasizes developing and administering rehabilitation protocols based on the healing process and return to function. Springs. *Prerequisite(s)*: AT 4500.

**AT4260 Rehabilitation of Injuries for Active Populations Laboratory 1 credit**

Clinical application of didactic material presented in AT 4250. Practical experience ranges from common stretching and strengthening technique to more manual skill oriented interventions such as joint mobilization, PNF and myofascial release techniques. Springs. *Corequisite(s)*: AT 4250.

**AT4500 Therapeutic Modalities 3 credits**

This is a comprehensive course in the technology, theory and use of therapeutic modalities in a sports medicine setting. The general principles of neurophysiology, pain control and the electromagnetic and acoustic spectra are discussed and applied through class and lab experiences using the following therapeutic modalities: thermotherapy, hydrotherapy, mechanotherapy, ultrasound, electric muscle stimulation and selected others. Falls. *Prerequisite(s)*: AT 3270 and AT 3280. *Corequisite(s)*: AT 4510. (TECO)

**AT4510 Therapeutic Modalities Laboratory 1 credit**

Comprehensive course in the practical application of therapeutic modalities in a sports medicine setting. Principles of neurophysiology, pain control, the electromagnetic and acoustic spectra are applied through lab experiences. Falls. *Corequisite(s)*: AT 4500.

**AT4760 Clinical Athletic Training III 4 credits**

Designed to provide Athletic Training students hands-on experience with which to further develop and perfect the wide range of skills required of an athletic training professional. Students are provided the opportunity to demonstrate their ability to problem solve, employ critical thinking skills, and integrate all of their athletic training knowledge. Students complete a minimum of 200 documented clinical hours under the direct supervision of an Approved Clinical Instructor (ACI). Responsibilities are commensurate with an advanced level of cognitive, psychomotor, and affective skills. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: AT 3760; current First Aid and CPR certifications; minimum 2.70 cumulative GPA.

**AT4800 Clinical Athletic Training IV 4 credits**

Designed to provide the Athletic Training student hands-on experience with which to further develop and perfect the wide range of skills required of an athletic training professional. The culminating clinical experience provides students with a chance to demonstrate their ability to problem solve, use their critical thinking skills, and integrate all of their athletic training knowledge in the final step before becoming an entry-level athletic training professional. Students complete a minimum of 200 documented clinical hours under the direct supervision of an Approved Clinical Instructor (ACI). Students are required to complete a capstone athletic training project and presentation. Responsibilities are commensurate with an advanced, pre-professional level of cognitive, psychomotor, and affective skills. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: AT 4760; current First Aid and CPR certifications; minimum 2.75 cumulative GPA.

**AT4880 Athletic Training Internship 4-12 credits**

For students desiring a culminating educational experience with a wide range of practical on-the-job work in their selected option. The Internship is in agencies that are approved, supervised and evaluated by the Department. May be repeated for credit. Students are required to pay a liability insurance fee. *Prerequisite(s)*: junior standing; minimum 2.70 GPA (cumulative and major); the approval of the Department Chair.

**AT4910 Independent Study 1-3 credits**

A student-initiated research project on a selected topic agreed to by a department faculty tutor. Consent required of the instructor who will supervise the Independent Study and the Department Chair.

## BI—Biology

### BID1010 General Biology I 4 credits

A lecture/discussion course with a laboratory component. Provides an overview of biological principles including: basic biological chemistry, cell structure and cell metabolism including respiration and photosynthesis. The cellular processes of mitosis and meiosis are studied in detail as a lead into Mendelian and modern genetics and evolutionary theory. Issues relevant to today's society are discussed throughout. The lab component provides hands-on experiences in which students deal with and observe cells, pH and buffers, food chemistry, respiration and photosynthesis. In the latter part, students observe mitosis and meiosis, and perform and analyze genetic experiments and manipulation of DNA. General Biology I and II can be taken in any sequence. Falls. (SCLB)(SIDI)

### BID1020 General Biology II 4 credits

A lecture course with a laboratory component. After a short review of cell structure and function, a survey of the diversity of organisms that occupy the biosphere is discussed. Within the lab component various kingdoms and phyla are examined with hands-on observation and manipulation of living organisms. In the latter part of the lab, specific environments and environmental factors are studied, including adaptations, and pond and soil ecosystems. Concludes with a study of population, community and ecosystem dynamics and emphasis on human impacts in the biosphere. Topics and issues of relevance to the course are discussed throughout. General Biology I and II can be taken in any sequence. Springs. (SCLB)(SIDI)

### BI1110 Biological Science I 4 credits

Covers the fundamentals of living systems, beginning with coverage of the chemistry of life and cell structure and then focuses on genetic systems. The laboratory component involves student projects that complement the lecture portion of the course. Biological Science I and II can be taken in any sequence. Falls. *Prerequisite(s)*: Biology or Physical Science Education majors. (TECO)

### BI1120 Biological Science II 4 credits

Covers the evolution, diversity, ecology and functioning of living systems, with a focus on both plants and animals. The laboratory component of the course involves student projects that complement the lecture portion of the course. Biological Science I and II can be taken in any sequence. Springs. *Prerequisite(s)*: Biology or Physical Science Education majors.

### BID1400 Plagues and Peoples 3 credits

One of the important influences on the course of human history has been the outbreak of infectious diseases. From the Plague

of Athens during the Peloponnesian War, to the Bubonic Plague of the European Middle Ages, to Yellow Fever during Napoleon's campaign to control his new world possessions, infectious diseases have often been a major factor in determining the outcome of human events. Focuses on infectious disease outbreaks through history, including modern outbreaks such as AIDS. The emphasis is on the diseases and the way in which they enter the human experience, as well as their direct impact on human populations to influence the course of history. Political, social and cultural forces are considered. Not open to students who have earned credit for BI 1350. Falls. (PPDI)

### BID2010 Human Biology I 4 credits

Focuses on human anatomy and physiology with emphases on ethics, the environment and related health and wellness issues. Starts with an overview of basic cell chemistry and biology including DNA, cell division and cancer. Explores the four major types of tissue type, followed by the integument, the skeletal-muscular system and its interaction with the nervous system. Addresses developmental processes throughout. Covers human evolution and ecology with a focus on the global environment. The lab component examines the structure and function of the human body by studying anatomical structure, virtual and inquiry based physiological experiments and continues emphasis on ethics, the environment and related health and wellness issues. Topics studied include cell biology, cell reproduction, tissues, the skeleton, articulations, muscle tissue and muscles. Human Biology I and II can be taken in any sequence. Falls. (SIDI)(WECO)

### BID2020 Human Biology II 4 credits

Focuses on human anatomy and physiology with continuing emphasis on ethics, the environment and related health and wellness issues. Starts with a detailed exploration of nervous tissue and the nervous system. Examines the structural and functional relationships between the different components of the endocrine, respiratory, cardiovascular, immune, lymphatic, digestive, reproductive and excretory systems. Addresses developmental processes throughout. Covers human evolution and ecology with a focus on local and global environments. The lab component examines the structure and function of the human body by studying anatomical structure, virtual and inquiry based physiological experiments and continues emphasis on ethics, the environment and related health and wellness issues. Topics studied include neurons, nervous tissue, the central nervous system, and the endocrine, respiratory, cardiovascular, digestive, reproductive and excretory systems. Human Biology I and II can be taken in any sequence. Springs. (SIDI)(WECO)

### BI2030 Invertebrate Zoology 4 credits

The vast majority of described animal species are invertebrates, and this course offers an introduction to their diversity. The morphology, ecology, and evolution of invertebrate phyla are investigated and discussed through lectures and readings. The laboratory component includes field work, data analysis, and the examination of preserved specimens. Fall of even years.

### BI2040 Vertebrate Zoology 4 credits

The classification, evolution, functional anatomy and development of selected representatives of the vertebrate phyla are considered. Spring of odd years.

### BI2070 Botany 4 credits

An overview of plants through study of their anatomy, physiology, and morphogenesis and how these aspects relate to the broad concepts of botanical science. Laboratories for experimentation and illustration. Fall of odd years.

### BI2080 Plant Morphology 4 credits

Modern concepts of plant morphology. Structure, development, life histories, evolution and phylogeny of the divisions of plant kingdom. Laboratories emphasize detailed study of representatives of the major taxa. Springs.

### BI2110 Human Anatomy and Physiology I 4 credits

A lecture course with a laboratory component. Students study the structure and function of the human body. Examines major body systems from the perspective of how anatomical structure is integrated with physiological function. Starts with an overview of basic cell chemistry and biology. Explores the four major tissue types, followed by the integument, the skeletal-muscular system and its interaction with the nervous system. Discusses developmental processes throughout. The laboratory component supports the lecture with a hands-on look at both the anatomy and physiological processes of cell biology, cell reproduction, tissues, the skeleton, articulations, muscles and muscle tissue. Falls. (SCLB)

### BI2120 Human Anatomy and Physiology II 4 credits

A study of the structure and function of the human body. Examines major body systems from the perspective of how anatomical structure is integrated with physiological function. Starts with a detailed exploration of nervous tissue and the nervous system. The structural and functional relationships between the different components of the endocrine, respiratory, cardiovascular, immune, lymphatic, digestive, reproductive and excretory systems are then examined. Discusses developmental processes throughout. The laboratory component supports the lecture with a hands-on look at both the anatomical and physiologi-

cal processes of the various systems above. Springs. *Prerequisite(s)*: BI 2110. (SCLB)

**BI3020 Biochemistry I 4 credits**  
See CH 3020 for course description. Springs. *Prerequisite(s)*: CH 3310 and CH 3320.

**BI3040 Microbiology 4 credits**  
Modern microbiological concepts. Studies groups of microorganisms characterized to reveal their morphological and physiological nature. Emphasizes biological functions of bacteria, their occurrence in nature and their relationships to each other, as well as to other forms of life, especially human beings. Falls.

**BI3060 Genetics 4 credits**  
Hereditary characteristics and contemporary views regarding basic genetic concepts. The physical and chemical nature of the genetic material, the mechanisms involved in the transmission of genetic material and the manner in which genetic principles are expressed in living organisms, especially human beings. Springs.

**BI3130 Evolution 4 credits**  
An analysis of the mechanisms of evolution from the viewpoint of population genetics. Provides opportunities for students to examine (1) the evidence of evolution: comparative anatomy and biochemistry, fossils and embryology; (2) the mechanisms of evolution: variation in populations, the Hardy-Weinberg Equilibrium and the forces which disturb it and the effects of selection on gene frequencies; and (3) the results of evolution. Springs. *Prerequisite(s)*: BI 3060 and at least eight credits in Biology at the 2000 level or higher.

**BI3210 Tropical Biology 4 credits**  
The diversity of life and basic ecological processes of tropical ecosystems are investigated through readings and field studies. Examines both terrestrial and marine ecosystems. Winterims. *Prerequisite(s)*: permission of the instructor. (WRIT)

**BI3240 Conservation 3 credits**  
An examination of the interdependence of all species on Earth, the current trend in loss of biodiversity, the causes for this trend, with special attention to global economics, value systems, resource consumption patterns and the interface between all three of these and cultural diversity. The ecology and mechanisms of species extinction are covered in depth. Alternative paradigms are discussed. Not open to students who have earned credit for BI 2240. Falls. *Prerequisite(s)*: junior or senior status. (DICO)(GACO)(INCO)

**BI3250 Ornithology 4 credits**  
An introduction to ornithology including bird identification, external and internal features, locomotion, behavior, reproduction, migration, feeding habits and distribution of spe-

cies. Spring of even years. *Prerequisite(s)*: BI 2040. (WRIT)

**BI3260 Freshwater Ecology 4 credits**  
An examination of the ecology of freshwater environments through lectures, readings, discussions, field activities, and data analysis. Explores the physical features of different freshwater systems and their ecological implications as well as the characteristics and ecological roles of major groups of freshwater organisms. Discusses environmental issues related to freshwater ecology. Fall of odd years.

**BI4050 Ecology 4 credits**  
An introduction to the fundamental ecological concepts which illustrate the complex interrelationships of living organisms with each other and with the non-living environment. Laboratory time used for field work, experimentation and analysis of data. Falls. *Prerequisite(s)*: MA 2300 and two upper-level biology courses. (WRIT)(QRCO)(WRCO)

**BI4100 Cell Structure and Function 4 credits**  
Addresses the diversity of form and function found in the basic units of life, the cells. The first segment centers on the various techniques, especially electron microscopy, which are used to study microscopic anatomy. The components, organelles, which comprise a "generalized cell," are examined and their functional relationships discussed. The second segment centers on the structural differences between tissues of the body (classical histology). Finally, this knowledge of cell and tissue structure is employed to understand organs and organ systems. This course is not purely morphological. Examines the development and functional properties of these systems. Laboratory. Falls.

**BI4180 Biotechnology 4 credits**  
An exploration of the use of living organisms to produce products beneficial to human kind, the application of biological organisms to technical and industrial processes and the use of "novel" microbes which have been altered or manipulated by humans through techniques of genetic engineering. This course is strongly laboratory oriented. Falls. *Prerequisite(s)*: BI 3020 or BI 3040 or BI 3060. (TECO)(WRCO)

**BI4190 Introduction to Research 2 credits**  
See CH 4190 for course description. Springs.

**BI4200 Senior Research 4 credits**  
Guided research in the biological sciences. Students are expected to pursue in-depth a research project in the biological sciences under the direct supervision of a Biological Sciences Department faculty member. Work accomplished is reported in a written paper

and in a formal oral seminar presentation in the Biology Seminar course. Credit is given either for work done during the summer between the junior and senior years and/or during the fall of the senior year. *Prerequisite(s)*: permission of the Department Chair and Faculty Supervisor. (WRIT)

**BI4460 Electron Microscopy Techniques 4 credits**  
Focuses on the theory and practical operation of an electron microscope laboratory. Covers tissue preparation, ultramicrotomy (sectioning), basic darkroom procedures and operation of the electron microscope. Spring of even years. *Prerequisite(s)*: BI 4100 and/or permission of the instructor. (WRIT)

**BI4600 Internship 1-4 credits**  
Students engage in a work program to apply, in a practical manner, knowledge gained in major or minor coursework under the supervision of a faculty sponsor, the Department Chair and a supervising agency. Students must obtain a faculty sponsor and submit a detailed written proposal prior to undertaking the internship. Students must also submit a written report to their faculty sponsor when the internship is completed. Final approval of the internship will come from the Department Chair. With permission.

**BI4610 Environmental Internship 4-12 credits**  
Students engage in a work program to apply, in a practical manner, knowledge gained in major, minor or interdisciplinary course work, under the supervision of a faculty sponsor and a supervising agency. Students must obtain a faculty sponsor and submit a detailed written proposal prior to undertaking the internship. Students must also keep a daily logbook of their working hours, tasks and duties. In addition, a written report must be submitted to the faculty sponsor when the internship is completed. Final approval of the internship comes from the Coordinator of Environmental Biology. Internships are usually completed with state, federal or private environmental programs. Also offered Summer and Winterim. *Prerequisite(s)*: approval of the Coordinator of Environmental Biology, Junior/Senior status, enrollment in Environmental or Interdisciplinary majors.

**BI4750 Plant Physiology 4 credits**  
Covers the major topics and concepts of the physiology of plants: Plant Biochemistry and Metabolism; Plant Growth and Development; Water and Solute Transport. Discusses topics in the context of ecological physiology, which is considering plant response to the environment and its impacts on ecosystem function. Designed for advanced undergraduates. Involves proposing, designing, and carrying out experiments during laboratory sessions. Previous coursework in botany and/

or organic chemistry is helpful. Spring of odd years. *Prerequisite(s)*: BI 1110 and BI 1120.

**BI4760 Animal Behavior 4 credits**

The study of animal behavior offers a unique opportunity to understand the relationship between ecology, evolution, physiology, populations and individual organisms. Examines the influence of genetics and environment on animal behavior. Outdoor and laboratory investigations test specific student and/or instructor generated hypotheses concerning the causal mechanisms underlying behavior. Fall of even years. *Prerequisite(s)*: junior or senior Biology or Psychology major. (WRIT) (WRCO)

**BI4770 Animal Physiology 4 credits**

Examines the various systems of the body including the respiratory, cardiovascular, digestive and excretory systems using a comparative approach. Discusses the control of these systems and behavior by the nervous and endocrine systems. Inherent is an analysis of an interaction between the mechanisms of homeostatic regulation and the environment. Laboratory investigations using local animals illustrate some of the principles outlined in lecture through the use of student and/or instructor generated hypothesis testing and uses modern equipment including computers, Data Acquisition Units, amplifiers, transducers, stimulators and activity monitors. Spring of even years. *Prerequisite(s)*: junior or senior Biology or Psychology major. (WRIT)(WRCO)

**BI4780 Neurobiology 4 credits**

Examines the functioning of the nervous system in vertebrates. The fundamental principles underlying membrane potentials, action potentials, and conduction are followed by mechanisms of communication between single cells and groups of cells. Different aspects of sensory, motor, and integrative physiology are discussed and the role of specific parts of the brain is explored. The laboratory portion is used to demonstrate important principles. Students use Data Acquisition Units, oscilloscopes, manipulators, transducers, and amplifiers to test student and/or instructor generated hypotheses. Spring of odd years. *Prerequisite(s)*: junior or senior Biology or Psychology major. (WRIT) (WRCO)

**BI4800 Current Environmental Issues 3 credits**

Intended primarily for seniors in the Environmental Biology degree program, a capstone course in which students and faculty examine the main issues that face ecologists, biologists and policymakers regarding the health of the biosphere. The current state of scientific understanding of such issues as global warming, ozone depletion, acid deposition, loss of biodiversity, pollution and desertification is elucidated through a combination

of lectures, student presentations, seminars and discussions. Springs. *Prerequisite(s)*: Biology majors only, Junior/Senior status.

**BI4910 Independent Study 1-4 credits**

Studies undertaken are defined by students concerned and subject to approval by appropriate staff members. Work may involve reading, conferences, historical, experimental or theoretical projects, field investigations, statistical surveys, or combinations of the foregoing, or other activities deemed appropriate. Consent required of the instructor who will supervise the independent study and the Department Chair.

**BI4960 Biology Seminar 1 credit**

Reports and discussions of current literature and recent developments in the biological sciences. Presentations by seniors of their research projects. Open to juniors and seniors who are majors in the sciences. Pass/No Pass. Springs.

## BU—Business

**BU1100 Business Computer Applications 3 credits**

Explores how business professionals use small computers and typical application software in use. Includes special emphasis to "hands on" use of spreadsheet; a study of integrated accounting applications. Decision criteria in the selection of hardware/software covered. Falls and Springs. (TECH)(TECO)

**BU1150 Financial Accounting 4 credits**

Recording and reporting the results of operations and financial position of business organizations. Covers principles, measurement techniques and applications. Topics include: accounting cycle; merchandise accounting; balance sheet and income statement; assets, liabilities and stockholders' equity; financial statement analysis. Balanced treatment of theory, practice and use in a real-world environment. Falls and Springs. *Prerequisite(s)*: completion of high school Algebra II and Geometry or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement.

**BU1500 Financial Reporting and Analysis 3 credits**

An overview of the accounting process, the output of which is the financial statements, and the analysis of the statements from the perspective of the user for decision making. This course may not be substituted for BU 1150. Falls.

**BU2240 Business Statistics 3 credits**

An introduction to statistics based on business applications. Students study statistics through the application of statistics to common business situations. Calculation of business statistics is performed on computers

using software commonly found in business enterprises, principally Excel. Topics covered include descriptive statistics, probability, probability distributions, sampling, hypothesis testing, analysis of variance and regression analysis. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth State University (i.e., completion of high school Algebra II and Geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

**BU2250 Introduction to Business Administration 3 credits**

An appreciation of the impact that business makes on our society and on the environment in which it strives to sustain its objectives. How a business is established, financed, operated and managed, including the multitude of considerations involved in decision making. Attempts to show how exciting the world of business can be and how an awareness of business can assist the student in seeking career goals. Uses the entrepreneurial approach. Falls and Springs.

**BU2260 Management Accounting 4 credits**

Accounting information systems that are critical to the business manager in operating more effectively. Covers cost terms and concepts and specific uses of managerial accounting data. Topics include: financial spreadsheeting applications, product costing; cost behavior and the contribution approach to costing; cost-volume-profit relationships; operating budgets; standard costs; control of decentralized operations; pricing; relevant costs for decision-making; capital budgeting. The emphasis is on planning and control. Falls and Springs. *Prerequisite(s)*: BU 1150.

**BU2290 Organizational Communications 3 credits**

The potential for success of a business or individual is enhanced by building a sound understanding of how information and communication passes to decision points in an organization. Individuals in business must master the methods and techniques to enhance that flow. In addition to a thorough examination of communication theory, develops critical skills in presentational speaking, listening, non-verbal communication and business writing. Additional topics include research methods, employment preparation, participative communication and business-media relations. Falls and Springs. *Prerequisite(s)*: EN 1200. (WRIT)(WRCO)

**BUDI2300 Personal Financial Planning 3 credits**

Acquaints students with the world of finance from their personal perspective. Shows students how to assess their current financial situation; provides tools and develops skills for planning aspects of their personal finance.



Students discover how to budget, use services offered from financial institutions and other financial providers, handle large purchases, manage credit (including credit cards, student loans, and personal loans), determine insurance requirements, view retirement options, and be introduced to investment fundamentals and estate planning. Relevant to students of all majors in providing information and skills valuable throughout life. Falls and Springs. (SSDI)

**BU2440 Business, Ethics, and Society 3 credits**

An analysis of the role of social responsibility and ethical standards in the corporate decision-making process. Students develop the ability to identify ethical issues and apply a decision-making orientation that balances concern for corporate performance and social responsibility. Emphasis on government regulation, pollution, consumerism, globalization, and human resource management issues. Includes a community service learning component providing students with an opportunity to demonstrate social responsibility. Falls and Springs.

**BU2450 Principles of Marketing 3 credits**

Presents an overview of the complete range of marketing activities and the role of marketing in our economic and social structure. Attention is given to the planning, distribution, pricing and promotion of goods and services to consumer and industrial markets. Falls and Springs.

**BU2480 Business Law 3 credits**

Law is an external boundary that acts as a check on the individual or the institution. By surveying the scope of administrative, criminal, civil and Constitutional law through common law and statutes, as they relate to institutions and people in the workplace, a working knowledge of relationships and legal conduct is mastered. Covered are topics in torts, contracts, property, employment, business organizations and the Constitution. Falls and Springs.

**BU2510 International Management 3 credits**

A study of the international dimensions of management and the opportunities and challenges of managing in a global environment. Encourages students to develop a global perspective and to apply cross-cultural management skills in a diverse work environment at both the interpersonal and organizational levels. Emphasis on the cultural environment, planning and organizing of international operations, human resource management in international settings and organizational change and development in a multinational corporation. A variety of instructional methods are used including lectures, cases, videos,

skill-building exercises, simulations, writing assignments, internet/web-based research and current event presentations and news mappings. Falls. (GLOB)

**BUDI2650 Career Exploration 3 credits**

Designed to acquaint students with the characteristics and expectations of the work world in the 21st century, including coverage of job insecurity, the importance of developing and maintaining marketable skills through life-long learning and the critical importance of ethical and professional behavior in gaining employment and avoiding layoff. Includes self-assessments of personal interests and abilities using the Choices 2005 computer program available to all PSU students, and exploration of appropriate college majors and possible occupations based upon the student's interests and abilities. Emphasis is on teaching students to use commonly available Internet sources to gather relevant information to help them to make career decisions over the course of their working lives. Relevant to students of all majors with all varieties of career interests. Falls and Springs. (SSDI)

**BU3050 Special Topics in Marketing 3 credits**

Contemporary marketing topics are defined and explored. The topics to be discussed will be announced prior to offering and will focus on issues not normally covered in cataloged courses. Students may repeat this course when offered under a different topic title. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3100 Financial Modeling 3 credits**

An applications-oriented course focusing on the use of spreadsheet modeling as applied to financial problems. Emphasizes describing and solving a problem, rather than the mathematical derivation of the specific financial model. Topics include ratio analysis and pro-forma models, stock and bond valuation models, capital budgeting models, portfolio optimization models, and Monte-Carlo risk simulation models. Requires effective use of computers. Falls and Springs. *Prerequisite(s)*: BU 1100, BU 2260 and (BU 2240 or MA 2300).

**BU3110 Intermediate Accounting I 3 credits**

Financial accounting in depth with emphasis on theory. Course work develops theory and the adherence to ruling by FASB and the APB. Balance Sheet, Income Statement, Assets and Current Liabilities. BU 3110 must be taken before BU 3120. Falls. *Prerequisite(s)*: BU 1150 and BU 2260.

**BU3120 Intermediate Accounting II 3 credits**

Financial accounting in depth with emphasis on theory. Course work develops theory

and the adherence to ruling by FASB and the APB. Liabilities, Equity, Statement of Changes in Financial Position. BU 3110 must be taken before BU 3120. Springs. *Prerequisite(s)*: BU 3110.

**BU3140 Cost Accounting 3 credits**

Builds on BU 2260. Study of the cost accounting information system that generates cost data for product costing, decision-making and performance evaluation. Topics include: process costing, variable costing, cost allocations, multiple product decisions, inventory management, standard costs, cost and revenue variances, transfer pricing, decisions under uncertainty. Springs. *Prerequisite(s)*: BU 1150, BU 2260 and MA 2200.

**BU3170 Income Taxes 3 credits**

An introductory course in Federal income tax law relating to individuals and businesses, including proprietorship, partnership and corporation. Topics include: gross income, deductions, losses, tax credits, property transactions, deferred compensation, tax planning, preparation of tax returns. Falls. *Prerequisite(s)*: BU 1150 and BU 2260.

**BU3180 Human Resource Management 3 credits**

An analysis of the basic personnel functions of recruitment, selection, placement, job design, performance appraisal, compensation and employee training and development. These functions are considered within the context of government regulation and varied administrative concerns, such as equal opportunity employment, safety, pensions and other benefit plans. Falls and Springs. *Prerequisite(s)*: BU 3420.

**BU3190 Management Science 3 credits**

An applications-oriented course focusing on the selection and use of the computational tools of management science as applied to operational problems. Emphasis is on problem finding, formatting and solution rather than the derivation and development of the specific computational technique being considered. Topics to be considered include linear programming, the assignment model, the transportation model, the economic analysis of the firm, inventory and production models, PERT/CPM, waiting lines and simulation. Effective use of the computer is required. Last offering Spring 2010. *Prerequisite(s)*: BU 2240 or MA 2300.

**BU3210 Financial Management 3 credits**

Financial analysis, planning and control techniques for large and small businesses. Includes present value concept, ratio analyses, short-term, intermediate and long-term financing approaches. Falls and Springs. *Prerequisite(s)*: BU 1150, BU 2260 and (BU 2240 or MA 2300).

**BU3220 Business and the Environment 3 credits**

Business has caused many serious environmental problems. Alternatively, one could suggest that without business support for environmental improvement, we would be faced with continuing adversarial situations with the possibility of future backlash. The course is meant to be cross-disciplinary including the perspectives of business, the social sciences and science. Falls.

**BU3230 Sales Management 3 credits**

Teaches sales management's fundamental principles of administration, selection, training, compensating, supervising and stimulation of sales personnel. Emphasizes sales planning, determining sales and market potential, budget preparation and establishing territories and quotas. Also the analysis of sales operations and evaluation of sales people's productivity and effectiveness. Case method used. Falls. *Prerequisite(s)*: BU 2450.

**BU3240 Information Technology 3 credits**

An exposure to contemporary issues related to the management and use of emerging information technology. Includes hardware, software and systems overview, exposure to business applications, micro applications, database and communication concepts. Falls and Springs.

**BU3260 Tax Assistance Institute 1 credit**

In the Tax Assistance Institute, students are trained to provide a community service of free tax assistance to lower income, handicapped and non-English speaking taxpayers. Students will establish and operate a VITA program in the university community. This involves securing community sites, scheduling volunteers, arranging publicity, securing necessary tax forms and supplies, coordinating the effort with the local IRS VITA coordinator and providing tax assistance. These responsibilities are delegated among those participating in the course. All students are required to volunteer four hours per week for 12 weeks and complete a paper summarizing their experience. May be repeated for credit once. Springs. *Prerequisite(s)*: BU 3170.

**BU3280 Professional Selling Skills I 3 credits**

Students learn the art of persuasion using proven negotiation techniques. Strong emphasis on the core components of the sales process: rapport, needs assessment, presentation, objections, and close. Topics also include the development of prospecting skills and tools, as well as the pre-approach to landing the sales appointment, and preparation for the actual meeting with the client. While emphasis is geared towards the B-2-C selling environment, students also gain exposure to the B-2-B sales processes and opportunities. Learning tools include student interaction

and role plays to ensure the core basics and skills of the sales process are effectively transferred. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3290 Professional Selling Skills II 3 credits**

Builds on the basics of BU 3280. The primary focus is on the B-2-B selling environment. This sales process is more strategic in nature with multiple buyers and a much longer sales cycle (six months to two years versus the B-2-C sales cycle of one to 14 days). Skills development focuses on the sales team environment, negotiations, and expanding on the skills learned in the Introduction of Professional Selling Skills I (PSS I). Topics expand on the concepts of Customer Relationship Management and the CRM technology to effectively manage this more complex process. Learning tools include work groups and case studies. Students also have several practical business projects. For example, students, in pairs of two, sell a business concept to actual companies in NH, under the supervision of their instructor, as part of the sales process. Students also gain exposure to purchasing agents, their specific trade associations and designations. Falls, beginning 2011, and Springs. *Prerequisite(s)*: BU 2290 and BU 3280.

**BU3300 Operations Management 3 credits**

Concerned with planning and controlling the use of people, materials, technology and information required to accomplish the objectives of a business concern, be it large or small, manufacturing or non-manufacturing. Topics include: product and process design, scheduling, program evaluation and review techniques (PERT), work standards and quality assurance. Emphasis is on problem-solving and decision-making. Falls and Springs. *Prerequisite(s)*: BU 2260, MA 2200 and (BU 2240 or MA 2300).

**BU3320 E-Commerce 3 credits**

Marketing in the 21st century provides many new and unique challenges. Explores the opportunities of marketing and distributing of products and services via e-commerce. Classes focus on defining electronic markets and new business in the fast-moving industry. Explores on-line catalogs, e-mails and web development. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3340 Consumer Behavior 3 credits**

A study of the consumer decision-making process and the role of the marketing manager. Interprets current studies in consumer research and discusses various marketing implications. Areas of discussion include image management, brand loyalty, product positioning, consumer reaction to personal selling and advertising concepts. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3360 Marketing Research 3 credits**

The scope, importance and organization of marketing research. Studies applications, procedures, situation analyses and informal investigation. Planning the formal investigation; gathering data; tabulation and analysis; interpretation; report preparation; application and follow-up are subjects of study. Falls and Springs. *Prerequisite(s)*: BU 2450 and (BU 2240 or MA 2300).

**BU3370 Advertising and Promotion Management 3 credits**

A study of the function(s) and role of promotion strategies in the context of the marketing concept. Primary emphasis is placed on the role of advertising as a strategic variable in executing a marketing plan. This emphasis encompasses an understanding of the management functions of organizing, planning, implementing and controlling an advertising program. Case method is used. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3410 Labor and Employment Law for Managers 3 credits**

A study of employment and labor law and its impact on the human resource management practices of companies. Specific labor law areas to be covered include the development of unions and labor law in the United States, the unionization process, unfair labor practices, collective bargaining, the enforcement and administration of the labor contract, the rights of union members and public sector labor relations. Employment law areas to be covered include equal employment opportunity and current discrimination laws, occupational safety and health, retirement income security, fair labor standards, employee welfare programs and common law employment issues. Falls and Springs.

**BU3420 Organizational Behavior 3 credits**

An analysis of human work behavior at the individual, interpersonal, team and organizational levels. Emphasis is on the development of interpersonal competencies to allow individuals to effectively work as managers or professionals in the rapidly changing, team-oriented, culturally diverse and technologically integrated global climate facing modern organizations. Includes topics such as personality and attitudes, perception and attribution, motivation, communication, work stress, group and team dynamics, leadership, decision making, quality, ethics, job and organization design, conflict management, organizational culture and politics, and organizational change. Varied classroom approaches include lectures, cases, team projects, presentations and other experiential training techniques. Falls and Springs. (DICO)



**BU3450 Sports Marketing 3 credits**  
A survey of concepts and processes used in the successful marketing of sport programs and events. Special emphasis is placed on the unique or unusual aspects of sport products, markets, and consumers. Falls and Springs. *Prerequisite(s)*: BU 2450.

**BU3530 Real Estate Investment and Finance 3 credits**  
Examines real estate as a vehicle for profit. The theory of value and the methods to evaluate value are learned so as to allow entry into banking, or private or institutional investment. The gathering of data and establishing investment criteria, tempered by risk analysis and the constraints of available financial resources, forms the focus of the course. Students investigate actual investment opportunities. Falls and Springs. *Prerequisite(s)*: BU 2260 and EC 2560.

**BU3550 Investment Principles 3 credits**  
Investment fundamentals. Objective is to provide background for intelligent and rational investment decisions using the risk-return tradeoff. Topics include: sources of financial information; operation of financial markets (including options and futures); and analysis of common and preferred stocks, government and corporate bonds, money market securities, mutual funds and other financial instruments. Falls and Springs. *Prerequisite(s)*: BU 3210.

**BU3560 Land Use Law and Development 3 credits**  
An exploration of the process by which the uses of real property are changed and the manner in which the Constitution, legal controls and economic environment impact upon the potential for exploitation. An in-depth examination of the citizenry in their various roles and constituencies interacting with the diverse group of professionals involved in the planning and development process. The decision criteria and process used in the developer's production systems are compared and contrasted with the aesthetic, ecological, social, ethical and utility concerns of the community, region and state. When possible New Hampshire Statutes and case studies are used. A written feasibility analysis is required. Perspectives integrated: GLOB, HIST, PHIL, SPSY, TECH. Falls and Springs. *Prerequisite(s)*: junior status. (INTG)

**BU3600 Corporate Public Relations 3 credits**  
Deals with public relations practices in the corporation through a combination of theoretical knowledge and practical applications. Specific objectives include: emphasizing the importance of effective writing skills in public relations; stressing the function of public relations in the marketing mix; teaching the background and theory fundamental to sound

public relations practices; providing students with an opportunity to develop public relations strategies and produce supporting promotional materials. Visiting public relations practitioners and field trips complement the classroom experience. Falls and Springs. *Prerequisite(s)*: BU 2290 and BU 2450.

**BU3720 Career Development 3 credits**  
An examination of the nature of work in contemporary society from the standpoint of the individual's experience in balancing life and career pursuits. Includes (1) an overview of occupational opportunities in the context of personal as well as organizational needs and expectations; (2) self assessment and development of a personal career plan; and (3) an examination of the latest approaches to the job search, including the Internet, for success in today's competitive, information-based economy. Perspectives integrated: GLOB, HIST, PHIL, SPSY, TECH. Falls and Springs; also Winterims and/or Summers. *Prerequisite(s)*: junior status. (INTG)(INCO)(WECO)

**BU4040 Commercial Law 3 credits**  
Applies the basic knowledge obtained in Business Law to compare the common law to the Uniform Commercial Code. Sections 1, 2, 3, 4 and 9 of the Uniform Commercial Code are covered using case studies and moot court exercises. It also involves an analytical study of the concepts embraced in the law of partnerships, corporations and other business organizations. Springs. *Prerequisite(s)*: BU 2480.

**BU4090 Current Topics in Business 3 credits**  
To allow students to cover special topics not normally covered in depth in other business courses. Students may repeat this course when offered under a different topic title. Occasionally.

**BU4100 Accounting Information Systems 3 credits**  
Effective control and audit of business information processing systems using computers. It may be considered as a basic introduction to computer control and audit techniques for students versed in principles of business, computer technology and accounting. Falls. *Prerequisite(s)*: BU 1150, BU 2260 and BU 3120.

**BU4120 Advanced Accounting 3 credits**  
Applications of accounting principles to special problems in different forms of business organization: partnerships, consolidations, installment sales, consignments. Springs. *Prerequisite(s)*: BU 1150, BU 2260 and BU 3120.

**BU4150 Auditing 3 credits**  
Principles and procedures of investigating financial statements and underlying records.

Types of audits, responsibilities and duties of auditor, audit standards, audit programs, internal control, auditor's report, ethics. Falls. *Prerequisite(s)*: BU 1150, BU 2260 and BU 3120.

**BU4200 Training and Development 3 credits**  
Focuses on the training and development component of the human resource management function. Students develop competencies in planning, designing and delivering training programs. Topics include needs assessment, training objectives, adult learning theory, training plans and methods, presentational skills and training evaluation. Springs. *Prerequisite(s)*: BU 3420.

**BU4210 Auditing Practice 1 credit**  
A practical application of auditing theory through a simulation of field experience. Falls. *Prerequisite(s)*: BU 3120 and BU 4150 (may be concurrent).

**BU4220 Administrative Policy 3 credits**  
Objective: to help students integrate and apply knowledge obtained in previous business courses. Seminar approach. Case studies of problems in administration of business enterprises, including both new and established operations. Point-of-view stressed is senior level management responsible for policy-making function. Additional course fee required. Falls and Springs. *Prerequisite(s)*: BU 2260, BU 3210, BU 3300 and junior status. (INCO)

**BU4240 Organizational Development 3 credits**  
Techniques of implementing planned change in organizations, based upon behavioral science research. Consideration of the nature of organizational change, problem diagnosis, intervention strategies, dealing with resistance to change and program evaluation. Techniques to be discussed include survey research, management by objectives, sensitivity training, team building and others. Falls. *Prerequisite(s)*: BU 3420.

**BU4250 Marketing Management 3 credits**  
The role of the marketing manager in considering the following areas: the consumer, the product line, pricing, advertising and promotion, marketing information, distribution, wholesaling and retailing, the law, the relationship to the production and finance areas. Case method used extensively. Falls and Springs. *Prerequisite(s)*: BU 2450, BU 3340, BU 3360 and senior status.

**BU4260 Interpersonal Relations 3 credits**  
A cognitively and experientially based course designed to develop crucial managerial skills required for success in the diverse and dynamic globally integrated contemporary

workplace. Includes (1) a review of conceptual material designed to facilitate the understanding of effective interpersonal behavior under conditions of uncertainty as well as competing and/or changing goal orientations in modern organizations; (2) self assessment, solicitation and evaluation of feedback regarding the effectiveness of student's current managerial behavioral skills; and (3) development of a comprehensive assessment of personal strengths as well as goals for improvement in the areas of professional and managerial communication and influence. Topics include such areas as communication, listening and feedback, team building and employee development, problem solving and decision making, conflict management, motivation and performance management, interpersonal influence and negotiation. Varied pedagogical techniques include assigned readings, videos, cases, individual and team exercises, role plays, self assessment and feedback instruments and integrative writing assignments. Falls and Springs. *Prerequisite(s)*: BU 3420.

**BU4270 Computer Applications in Decision Making 3 credits**

Introduces students to computer-based decision support systems. It differs from Management Information Systems (MIS) as MIS does not make decisions; it only provides support. Expands on MIS by studying DSS in marketing, manufacturing and finance. Not open to students who have earned credit for CS 3120. Springs.

**BU4390 Seminar in Finance 3 credits**

Expands on topics covered in Financial Management at a more advanced level and adds topics not covered with the prerequisite course. Concepts covered may include corporate financial management, investment portfolio management, fundamental analysis and technical analysis, at the discretion of the professor. Falls and Springs. *Prerequisite(s)*: BU 3210.

**BU4440 Global Marketing 3 credits**

Analysis of economic, social and political environments influencing international markets. Investigation of marketing techniques and programs as developed and implemented on a global scale. Evaluation of international marketing strategies, special goals, global buying behavior and decision-making processes that are part of marketing on a global scale. Emphasis on extent of standardization of marketing programs across several countries and the selection of appropriate entry strategies for foreign markets. Falls. *Prerequisite(s)*: BU 2450.

**BU4600 Business Internship 3-12 credits**

The Business Internship is an opportunity for students to gain meaningful work experience by applying the knowledge and skills learned in course work to on-the-job assign-

ments in host organizations. As a student initiated and directed credit class, it includes self-assessment, the design of a learning contract, reflection, synthesis and assessment. The internship is a supervised assignment for a prescribed number of working hours. Internships are established and monitored by the internship advisor. Completion of BU 3720 is highly recommended. Repeatable for up to 12 credits. Enrollment for internships must be completed during the first two weeks of the semester. With permission. *Prerequisite(s)*: junior status; taken before the semester immediately prior to graduation; minimum 2.50 cumulative GPA.

**BU4650 Professional Employment 3 credits**

Designed to help students obtain and succeed in their first professional position after college. Relevant to students of all majors with all varieties of career interests. Emphasizes the importance of professional behavior in the workplace, including expectations regarding dress, communication and etiquette. Covers the role of personal financial management in professional success, professional networking and occupational focus, varied approaches to the job search, job search documents (such as resumes and cover letters), interviewing skills, characteristics of professional work environments and tips for succeeding in the first job. Falls and Springs. (WECO)

**BU4910 Independent Study 1-3 credits**

Individual study and research affording opportunity for advanced work in a field of business selected by the student. Advanced study may be undertaken in subjects offered by the Business Department or in fields which courses are not offered. Evidence of progress demonstrated by paper and discussion with supervising instructor. Consent required of the instructor who will supervise the independent study and the Department Chair.

## CC—Coaching

**CC2540 Coaching Effectiveness 3 credits**

An overview of basic theories and coaching applications in sport philosophy, sport psychology, sport pedagogy, sport medicine, and sport management. With each major area, the physical, cognitive, social and/or psychological characteristics of youth are examined for the purpose of understanding their behavior in sport and physical activity settings. Prepares students for the American Sport Education Program (ASEP) Coaching Effectiveness examination. Students who successfully complete the ASEP examination will obtain the ASEP Bronze Level Coaching Principles qualification. Falls.

**CC2660 Basic Athletic Training 2 credits**

An introduction to athletic training skills. Emphasizes the mechanism, treatment, pre-

vention and taping techniques of common athletic injuries. Spring of even years.

**CC3610 Coaching Seminar 1 credit**

Preparation for the fundamentals of coaching techniques and strategies; knowledge of rules, regulations, and officiating; philosophy of selected program and sport; team management. Students are supervised by designated coach for 45 hours and attend a one-hour class each week. May be repeated for a maximum of six credits. Seminar arrangements must be completed with the Coaching Minor Coordinator at least one semester prior to the beginning of this course. Students are required to pay a liability insurance fee. Spring of even years. *Prerequisite(s)*: junior status and (CC 3880 or CC 4880).

**CC3670 Organization and Administration of Physical Education and Athletics 3 credits**

An intensive review of those procedures necessary to the organization and administration of physical education and athletic programs. Includes a discussion of philosophy, budgets, eligibility, scheduling, equipment inventories and purchasing, contract development, service organizations, public relations, facility development, office management, curriculum development and other topics related to physical education and athletic administration. Fall of odd years.

**CC3780 Sport in Society 3 credits**

Examines the role of sport in society by studying sociological theories and using critical thinking skills to analyze social issues in sport. Analyzes social institutions including politics, economics, education, family, media, religion, moral development, and especially race, class, and gender. Fall of even years. (SPSY)

**CC3860 Psychological Aspects of Sports 3 credits**

Examination of the psychological impact sports and competition has upon individuals and groups. Examines problems of motivation, discipline, stress and anxiety associated with competition. Spring of odd years.

**CC3880 Coaching Practicum 1-3 credits**

Designed to give students a practical experience in the same sport selected for CC 3600 that is supervised and controlled by the HHP Department. May be repeated for a maximum of 12 credits. Practicum arrangements must be completed with the Coaching Minor Coordinator at least one semester prior to the beginning of the Practice. Students are required to pay a liability insurance fee. Pass/No Pass. Falls and Springs. *Prerequisite(s)*: CC 2540, CC 3600, HE 2500 or equivalent valid certifications; minimum 2.00 cumulative GPA; approval of the HHP Coaching Minor

Coordinator, the mentoring coach, and the Department Chair.

**CC488o Coaching Internship 4–12 credits**

For students desiring a culminating coaching experience in the same sport selected for CC 3600. The Internship must be approved, supervised, and evaluated by the HHP Department. May be repeated for a maximum of 12 credits. Internship arrangements must be completed with the Coaching Minor Coordinator at least one semester prior to the beginning of the Internship. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: CC 2540, CC 3600, HE 2500 or equivalent valid certifications; minimum 2.70 cumulative GPA; approval of the HHP Coaching Minor Coordinator, the mentoring coach, and the Department Chair.

## CD—Childhood Studies

**CD100o Introduction to Childhood Studies 3 credits**

Provides an overview of the skills, knowledge and dispositions necessary for working with school-age children in various community settings. Students begin to develop the concept of the “whole child” in the context of today’s society, including the impact of technology on children and learning environments. Explores the various ways professionals can positively contribute to the lives of children. Introduces students to the PSU Childhood Studies major and the Conceptual Framework for Teacher Education. Introduces students to the institution’s electronic portfolio tool and course management system. Students are exposed to educational technologies that relate to managing learning activities, delivering materials to learners and assessing learning through the development of an electronic portfolio as an example of authentic assessment. Falls and Springs. (TECO)

**CD2001 Human Development I: Birth to Early Childhood 3 credits**

Explores physical, cognitive, emotional and social development from conception through early childhood and the methods used to study that development. Students learn about and practice observational methods used to study the physical, cognitive and social development of young children, and explore the influence of cultural context on both development and theoretical explanations for development. Falls and Springs.

**CD2002 Human Development II: Middle Childhood to Late Adulthood 3 credits**

Explores physical, cognitive, emotional and social development from middle childhood through late adulthood and the methods used to study that development. Students learn

about the research methods used to study physical, cognitive and social development across the life span, learn to locate and evaluate reports of such research and explore the influence of cultural context on both development and theoretical explanations for development. Falls and Springs. *Prerequisite(s)*: CD 2001. (WRCO)

**CD236o Foundations of Diversity 3 credits**

The United States is a nation rich in cultural diversity, experiencing variations in race, ethnicity, sexual orientation, gender, ability, age, socioeconomic class, religion and more. For this diverse nation, and for the children of this diverse nation to prosper, it is imperative that individuals recognize and understand the nature of this diversity, and how perceived differences may affect social behavior and interpersonal relationships. Students consider information, issues, theories and beliefs essential to understanding and relating to individuals in diverse cultures. Emphasizes the role of the school as a socializing agent and the responsibility of professionals who are influential in the lives of children to effect social adaptation and change. Not open to students who have earned credit for IS 4360. Falls and Springs. *Prerequisite(s)*: Childhood Studies and Early Childhood Studies majors only. (DICO)

**CD254o Integrated Arts 3 credits**

Exploration into the value and practice of integrating the arts into the lives of children. Students gain an understanding of the important role the arts play in the growth and development of children by investigating the various means of expressing ideas, emotions and images through the use of music, drama, movement, puppetry, visual arts and theater. Emphasis on inspiration, meaning-making, arts relevancy and the creative process in the context of lifelong learning and the development of critical skills. Five hours of in-class arts practicum experience is incorporated into the course curriculum to provide students with opportunities to practice integrating the arts into a variety of childhood settings. Falls and Springs.

**CD300o Philosophical and Historical Perspectives on the Child in Society 3 credits**

Traces through the history of Western philosophy the origins of the various components of the contemporary American world view as these influence child-rearing and education today. Students learn how a culture’s beliefs and ideologies are reflected in the education and treatment of children and explore the complex philosophical and historical origins of contemporary issues affecting children. Falls and Springs. *Prerequisite(s)*: junior or senior status. (PHIL)(INCO)(WRCO)

**CD321o Children and Families in Society 3 credits**

Explores the major socializing forces in children’s lives while identifying and applying processes that can serve to promote the development of socially responsible and culturally competent children as well as socially just environments. Special attention is paid to families, schools, community resources, media influences and literacy, and advocacy. Case study analysis and field experiences are essential parts of the course. Falls and Springs. *Prerequisite(s)*: CD 2360.

**CD410o Contemporary Issues in Childhood Studies 3 credits**

Examines selected issues of childhood in contemporary America from an interdisciplinary perspective. Children’s voice and agency are examined in psychological, sociological, political and philosophical contexts. Special attention is given to issues of parenting, child care, education and child welfare currently regarded as controversial. Intended as a capstone experience for Childhood Studies majors not pursuing Teacher Certification and available as an elective for others. Springs. *Prerequisite(s)*: CD 3000.

**CD423o Childhood Studies Internship 3–9 credits**

The Childhood Studies Internship is a supervised experience in an approved setting that provides services for school-aged children outside of a school classroom. Such settings could include recreational, therapeutic, educational and human service programs that align with students’ career goals and interests. In the Internship, students apply knowledge and skills learned in coursework and engage in self-assessment, the design of a learning contract, reflection and assessment by their supervisor. Planning for the Internship should begin early in the student’s program; enrollment for internships must be completed during the first two weeks of the semester. With permission.

## CH—Chemistry

**CH105o Laboratory Safety 1 credit**

Principles of safety in chemistry, biology and physics lab field settings. Procedures of accident prevention, chemical storage and treatment of fires and spills. Designed for science majors and particularly science teachers. Open only to science and education majors. Falls and Springs.

**CHDI76o Chemistry in Society 3 credits**

An introductory chemistry course for non-science majors. Explores chemical principles in the context of real-world issues with an emphasis on environmental topics. Falls. (SCIE)(SIDI)

**CHDI1770 Chemistry in Society****Laboratory 1 credit**

Supplements CH 1760 by reinforcing concepts and using problem-solving skills in a laboratory setting. Includes use of modern instrumentation for environmental analysis. Falls. *Corequisite(s)*: CHDI 1760. (SLAB) (SIDI)

**CH2130 General Chemistry I 3 credits**

Fundamental principles and theories of chemistry including atomic and molecular structure, gas laws and thermochemistry. Falls. *Corequisite(s)*: CH 2230. (SCIE)(QRCO) (TECO)

**CH2140 General Chemistry II 3 credits**

Fundamental principles and theories of chemistry including stoichiometry, equilibrium, kinetics and electrochemistry. Springs. *Prerequisite(s)*: CH 2130. *Corequisite(s)*: CH 2240. (SCIE)

**CH2230 General Chemistry****Laboratory I 1 credit**

Basic laboratory techniques and experience in using the principles developed in CH 2130. Falls. *Corequisite(s)*: CH 2130. (SLAB)

**CH2240 General Chemistry****Laboratory II 1 credit**

Basic laboratory techniques and experience in using the principles developed in CH 2140. Springs. *Corequisite(s)*: CH 2140. (SLAB)

**CH2250 Techniques in Laboratory Chemistry 2 credits**

Develops the technical skills which insure the ability to carry out accurate and precise laboratory experiments, particularly those involving analysis. Some of the skills included are mass and volume measurements, solution preparation, titration, potentiometry, buffer preparation colorimetry and statistical data treatment. Springs. *Prerequisite(s)*: CH 2130.

**CH3020 Biochemistry I 4 credits**

The major chemical compounds present in living things and the chemical reactions they undergo. Considers dynamic aspects of biochemistry as well as material features. May be taken as BI 3020. Springs. *Prerequisite(s)*: CH 3310 and CH 3320.

**CH3310 Organic Chemistry I 3 credits**

An introduction to organic chemistry. Topics include bonding, structure and nomenclature; reactions of alkanes, alkenes, alkynes and alkyl halides along with appropriate mechanism and stereochemistry. Computer molecular modeling is used through the semester. Falls. *Prerequisite(s)*: CH 2130 and CH 2140. *Corequisite(s)*: CH 3330.

**CH3320 Organic Chemistry II 3 credits**

A continuation of CH 3310. Topics include spectroscopic methods, reactions of organic

aromatics, alcohols, phenols, ethers, carbonyl compounds and organic nitrogen compounds. Springs. *Prerequisite(s)*: CH 3310. *Corequisite(s)*: CH 3350.

**CH3330 Organic Chemistry****Laboratory I 1 credit**

The preparation, purification and identification of organic compounds. Both standard and instrumental methods are used. Most of the laboratory exercises are conducted using microscale techniques. Falls. *Corequisite(s)*: CH 3310.

**CH3340 Quantitative Analysis 4 credits**

Study of the design, methods and theories of exact quantitative analyses. Particular emphasis on equilibria in solutions. Laboratories in volumetric, gravimetric and colorimetric techniques. Fall of odd years. *Prerequisite(s)*: CH 2130 and CH 2140.

**CH3350 Organic Chemistry****Laboratory II 1 credit**

A continuation of CH 3330. Time at the end of the semester is made available for student projects. Uses microscale techniques. Springs. *Corequisite(s)*: CH 3320.

**CH3360 Instrumental Analysis 4 credits**

Modern chemical analysis in large part involves the use of instruments. Students gain insight into the theory and operation of such instruments. An understanding of the operating parameters which must be controlled in order to make results meaningful and the types of analyses to which each instrument can be applied, including environmental and biochemical systems is emphasized. Spring of even years. *Prerequisite(s)*: CH 2250, CH 3310, CH 3320.

**CH3420 Environmental****Chemistry 4 credits**

Studies the chemistry of air and water. Particular emphasis placed on the pollution problem and its solution. Topics include the ozone depletion problem, the greenhouse effect, acid rain, sewage and waste disposal, chlorinated chemicals and metals in the environment. Springs. *Prerequisite(s)*: CH 2130 and CH 2140.

**CH3450 Physical Chemistry I 4 credits**

The field of physical chemistry and the behavior of matter interpreted by an understanding of physicochemical principles. Topics include thermodynamics, thermodynamic functions of state, material equilibrium, reaction equilibrium and phase equilibrium. Fall of even years. *Prerequisite(s)*: CH 2130, CH 2140, MA 2550 and MA 2560. (WRIT)

**CH3460 Physical Chemistry II 4 credits**

A continuation of CH 3450 with topics of solutions, electrochemical systems, reaction kinetics, quantum mechanics, spectroscopy

and statistical mechanics. Spring of odd years. *Prerequisite(s)*: CH 2130, CH 2140, MA 2550 and MA 2560. (WRIT)(WRCO)

**CH3500 Inorganic Chemistry 4 credits**

Descriptive chemistry of the inorganic elements supported by the theories needed to understand it. Particular attention is given to bonding, acid-base theories, oxidation-reduction and coordination chemistry. Laboratory presents classical methods in inorganic synthesis and characterization. Fall of even years. *Prerequisite(s)*: CH 2140.

**CH4020 Biochemistry II 3 credits**

A continuation of the study of the molecular basis of biological processes. Topics include photosynthesis, glycogen and fatty acid metabolism and protein turnover, and biosynthesis including nucleic acid and protein synthesis. Fall of even years. *Prerequisite(s)*: BI 3020 or CH 3020 or equivalent.

**CH4110 Air Quality****3 credits**

See MT 4110 for course description. Springs. *Prerequisite(s)*: CH 2140, MT 2110, and (MA 2490 or MA 2550).

**CH4190 Introduction to Research 2 credits**

Develops plans for the research project to be conducted in the Senior Research course. Students are guided through the process of literature search using library and Internet resources. Critical evaluation of project ideas is addressed in a seminar format. A detailed research plan is required as a final assignment. May be taken as BI 4190. Springs.

**CH4520 Senior Research I 2 credits**

An introduction to the literature and laboratory research techniques of chemistry. The first semester is devoted to developing a project through the stages of literature search and equipment procedure and assembly. Last offering Spring 2011.

**CH4530 Senior Research 4 credits**

An introduction to the literature and laboratory research techniques of chemistry. The second semester involves carrying out the laboratory work and a formal report begun in CH 4190. Falls.

**CH4600 Internship 1-4 credits**

Students engage in a work program to apply, in a practical manner, knowledge gained in major or minor coursework, under the supervision of a faculty sponsor, the Department Chair and a supervising agency. Students must obtain a faculty sponsor and submit a detailed written proposal prior to undertaking the internship. Students must also submit a written report to their faculty sponsor when the internship is completed. Final approval of the internship comes from the Department Chair. With permission.



**CH4910 Independent Study 1–4 credits**  
Ordinarily for Chemistry majors. Studies undertaken are defined by the students concerned, subject to approval of appropriate staff members. Work may involve reading, conferences, historical, experimental or theoretical projects, field investigations, statistical surveys or combinations of the foregoing. Consent required of the instructor who will supervise the independent study and the Department Chair.

## CJ—Criminal Justice

### CJ1010 The Criminal Justice System 3 credits

A survey of the structure and roles of the institutions that influence society's approach to dealing with social deviance. Beginning with a historical prospective, the development of institutions and processes emerge into what we recognize as today's law, courts and correctional institutions for both adults and juveniles. Falls and Springs.

### CJDI1020 The Individual and the Law 3 credits

Examines questions central to the modern legal system: Does the law exist to protect the individual from the group or to protect the group from the individual? To what extent does the legal system serve to protect the rights of individuals or to limit them in order to promote the common good of society? Students are provided with an introduction to the structure and organization of the formal legal system in the United States with an emphasis on the various social, political and economic forces that have shaped it. Special attention is paid to the relationship between law and the legal process and race, class and ideology. Topics may include privacy/surveillance, quality of life policing, incarceration and the social construction of constitutional rights. Falls and Springs. (SSDI)

**CJ2020 Criminal Investigation 3 credits**  
Introduction to criminal investigation in the field from the time of the initial response to preparing reports and preparation for testimony; management of the crime scene, methods of interview and interrogation of witnesses and suspects, the use of informant and the techniques of surveillance are explored as they may vary depending upon the crime being investigated; emphasis on the special techniques of investigation for specific crimes. Springs. *Prerequisite(s)*: CJ 1010.

**CJ2040 Criminal Adjudication 3 credits**  
An understanding of criminal law and the processes through which it is applied. A critical understanding of the interface between law enforcement and the courts, both adult and juvenile. Students research, then draft documents, reports and memoranda, then utilize their research in mock interactions

from pre-arrest through prosecution, sentencing and parole consideration. Falls and Springs. (WRIT)

**CJ2070 Corrections 3 credits**  
A comprehensive overview of the field of corrections, with special emphasis on community-based corrections as alternatives to institutionalization. Beginning with the history and evolving philosophy of corrections, seeks to develop an understanding of the role of the various institutions that are in place, an examination of how these institutions are changing to meet public expectations, the needs of offenders and legal and political pressures. Falls and Springs. *Prerequisite(s)*: CJ 1010.

**CJ2350 Statistics for Criminal Justice 3 credits**  
See MA 2350 for course description. Not open to students who have earned credit for MA 2300. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

**CJ2400 White Collar Crime 3 credits**  
See SO 2400 for course description. Springs.

**CJ3010 Forensic Science 3 credits**  
A presentation of the techniques, skills and limitations of the modern crime laboratory. Discussion of the recognition, collection, preservation and analysis of physical evidence. Emphasis on the nature of physical evidence and the limitations that technology and present knowledge impose on characterization. Attention is paid to the meaning and role of probability in interpreting the significance of scientific evidence. Extensive use of cases enlightens the discussions. Springs. (SCIE)

**CJ3020 Comparative Justice Systems 3 credits**  
Fueled by transnational crime and criminal organizations which are unrestrained by national borders as well as the significance of encounters with people from diverse backgrounds and cultures, critical appreciation of comparative justice systems is essential for contemporary criminal justice practitioners. Particular emphasis is placed on comparing systems of policing, court administration, and correctional practices in cross cultural settings. Examines two fundamental questions. First, what alternative forms of social control, aside from the US criminal justice system, are present? Second, how do economic, social, political, religious, and historical characteristics of settings influence its notions of social control and justice process? Fall of odd years. *Prerequisite(s)*: CJ 1010.

**CJ3030 Forensic Science Laboratory 1 credit**  
Laboratory experiments designed to give students an appreciation of the details necessary for obtaining, maintaining and analyzing criminal evidence. Springs. *Corequisite(s)*: CJ 3010. (SLAB)

**CJ3050 The Law Enforcement Environment 3 credits**  
A view of the management of the law enforcement effort. An examination of the structure and management of policing organizations and the resulting behavior of the people who work within those organizations. Included are ethics, human resource management, labor relations, performance evaluation and the impact of external institutions on organizational stability. Falls and Springs. *Prerequisite(s)*: CJ 1010.

**CJ3060 Domestic Violence and Juvenile Justice 3 credits**  
Provides an introduction to the major issues and trends surrounding the field of juvenile justice and domestic violence. Explores the history of juvenile justice, juvenile justice as applied and theories of delinquency and causation. Students follow the evolution of the meaning of domestic violence and its response by law enforcement and society. Spring of odd years.

**CJ3080 Juvenile Delinquency 3 credits**  
An examination of theories explaining juvenile delinquency, of the history of the juvenile justice system and of contemporary societal responses to delinquency. May be taken as SO 3080. Fall of even years. *Prerequisite(s)*: CJ 1010 or SO 2220.

**CJ3090 Criminology 3 credits**  
A scientific study of crime and its control, including indexes, rates and theories of crime and delinquency, courts, prison and parole. May be taken as SO 3090. Falls and Springs. *Prerequisite(s)*: AN 2210 or SO 2220.

**CJ3150 Society, Ethics, and the Law 3 credits**  
Examines the concepts of morality and law and their relationship, especially the ethical underpinnings of justice and the law. Seeks to understand the nature of ethics as it bears on social problems and the law, including problems of gender and diversity. Students gain familiarity with philosophical analysis and theories of ethics, and are encouraged to view society and the law philosophically. May be taken as PY 3150. Not open to students who earned credit for CJ/PY 2100. Falls and Springs. *Prerequisite(s)*: junior status. (PHIL)(DICO)(INCO)

**CJ3250 Management and Planning in Criminal Justice 3 credits**

An examination of the principles of organizations and management which may be applied to criminal justice agencies. Topics include leadership, motivation, performance evaluation, administrative planning, resource allocation, program budgeting, and planned organizational change. Examines agency interaction with the external environment. Springs. *Prerequisite(s)*: CJ 1010.

**CJ3300 Criminal Law in Literature 3 credits**

Literature provides a realistic context for the examination of the criminal and the law. With a focus on real lives, people and situations, critical thinking skills are utilized to discuss, dissect and analyze the impact of law on individuals and society. A multi-dimensional approach of intellectual, social and ethical concepts is used to explore underlying concepts, analyze assumptions and biases and be challenged to think from multiple perspectives. Spring of even years.

**CJ3400 Homeland Security 3 credits**

An examination of counter terrorism and homeland security efforts critical to the mission of criminal justice agencies in the post 9-11 world. Attention is paid to vulnerability assessments and prevention efforts as well as the response, mitigation, and management of critical incidents, including terrorism and natural disasters. Special attention is paid to civil rights issues. Falls.

**CJ3500 Women and Crime 3 credits**

Examines the nature and extent of women's and girl's crimes, including: theories of female criminality, processing of female offenders through the criminal justice system and the response of police and court officials to women as victims of crime. In addition, emphasis is placed on organizational, operational and personal issues which confront women as professionals employed in criminal justice agencies. Spring of even years. *Prerequisite(s)*: CJ 1010.

**CJ3710 Topics in Criminal Justice 3 credits**

Examines specialized topic areas in criminal justice which are not covered in significant depth in regularly scheduled course offerings. May be repeated with a different topic for no more than nine credits. Offered occasionally. *Prerequisite(s)*: CJ 1010.

**CJ4010 Advanced Theory in Criminology 3 credits**

See SO 4010 for course description. Spring of even years. *Prerequisite(s)*: CJ 1010 or SO 2220.

**CJ4400 Research Methods in Criminal Justice 3 credits**

An examination of problem formulation, measurement, research ethics, methodological approaches and data analysis strategies demonstrated through critical analysis of classic and contemporary criminal justice studies. As future practitioners, Criminal Justice majors are seen as both informed consumers of criminal justice research and potential producers of criminal justice data. Contributes to a foundation of problem solving techniques, critical thinking and scholarly writing within the disciplines of criminal justice. Falls and Springs. *Prerequisite(s)*: CJ 1010, (CJ 2350 or MA 2300 or MA 2350) and (CJ 3090 or SO 3090).

**CJ4580 Internship in Criminal Justice 1-15 credits**

An opportunity to learn while gaining relevant work experience in a host organization. The primary objective is to expand the student's depth of understanding by integrating acquired principles within the context of an operating organization. Students observe and participate in activities to gain experience and an understanding of the role of the institution and its contribution to the overall criminal justice effort. The experience contributes to personal and professional development and an enhancement of self-confidence and maturity. The internship is a supervised assignment with planned objectives and a prescribed number of working hours for which academic credit is earned. Internships are arranged to meet the specific goals of the student and are reserved for the student who has demonstrated self-discipline, motivation and academic success. Open to Juniors and Seniors who have completed the appropriate courses to justify the position. May be repeated up to a maximum of 15 credits. Arranged. *Prerequisite(s)*: (junior or senior status) and permission of the faculty supervisor.

**CJ4800 Criminal Justice Seminar 3 credits**

A capstone experience in seminar format that focuses on the major contemporary issues that currently impact the criminal justice field locally, nationally and internationally. The instructor provides an array of institutional operational issues and policies for analysis and response. The development of policy and the implementation of change are the primary focus within the criminal justice system. Falls and Springs. *Prerequisite(s)*: CJ 1010, CJ 2040, CJ 3050, CJ 4400, (CJ 2070 or CJ 4050) and (CJ 3090 or SO 3090). (WRCO)

**CJ4910 Independent Study 1-3 credits**

An opportunity to work with a professor in a focused research project related to an issue of criminal justice. The work may be a field study, a study of the literature or both. Generally students explore an area of inter-

est offered in a course to a greater depth or expand their knowledge to an area not covered in a catalog course. The goal of the work is usually a publishable contribution to the literature that will be submitted to a regional or national criminal justice academic or professional group. Open to Juniors and Seniors who have completed the appropriate courses to justify the position. May be repeated for a total of no more than six credits. Consent required of the instructor who will supervise the independent study and the Department Chair.

**CM-Communication and Media Studies****CMD1010 Mass Media, Jim Morrison, and The Doors 3 credits**

Examines the contributions of various media forms, from the 1960s to the present, to the creation and perpetuation of the cultural/musical legacy of Jim Morrison and The Doors. Participants utilize a cultural studies framework to analyze films, television programs, musical offerings and print and online materials in relation to their historical contexts, ideological contents, symptomatic characteristics, and overall contributions to our modern-day understanding of media processes and effects. Film and television screenings, focusing on Jim Morrison and The Doors specifically and/or pertaining to the era in which the band emerged, represent an essential component. Fall of odd years. (PPDI)

**CMD1020 Media Representations of College Students and College Life 3 credits**

It can be argued that identity occurs at the intersection of culture and self. As a powerful part of culture, media representations inform, construct and reify identity. Therefore, it is essential to know how to analyze, deconstruct, challenge, accept and modify specific representations, particularly when they reflect an identity that you have claimed. In order to understand our own identities, media texts and culture in an in-depth way, participants examine and create media representations of college students and college life. Fall of even years. (SSDI)

**CMD1100 Creating Games 3 credits**

Much has been written about the possibility that games could become the defining objects of popular culture in the new century. Course participants use games as a medium through which they can express their creativity. They study the principles of game design so they can use them to critique existing games as well as to guide the design of new games. Topics include the structure of compelling games, the role of games in society, meaningful play in games, games as simulations, games as narratives, and the culture of gam-



ing. Creating, play testing, critiquing, and revising games of all kinds are primary activities. Falls and Springs. (CTDI)

**CMDI1200 Web Expressions 3 credits**  
See CSDI 1200 for course description. Not open to students who have earned credit for CSDI 1200. Falls and Springs. (TECH) (CTDI)

**CMDI2010 Outlaws, Delinquents, and Other "Deviants" in Film and Society 3 credits**  
Social expectations generally inform and regulate our behaviors and beliefs. All too often, and for varying reasons, numerous individuals in our society fail to conform to these expectations and they are accordingly labeled as being "deviant." Analyzes various social constructions of "deviants"—outlaws and delinquents among them—as they exist both in cinematic offerings and society. Spring of even years. (SSDI)

**CMDI2020 Sex and Cinema in the 20th Century (and Beyond) 3 credits**  
Explores the evolution and social construction of sex, gender and sexual orientation in narrative cinema during the 20th century (and beyond). Spring of odd years. (PPDI)

**CMDI2100 The Digital Imagination 3 credits**  
The way we communicate is changing in response to our use of rapidly changing digital technology. Students explore how images can be used to express ideas by introducing fundamental concepts of image composition and design. Students learn how images embody meaning and how to use powerful image and animation creation/editing tools to effectively express their ideas. Students explore the use of color, line, shape, texture, light, and principles for two-dimensional design. They use techniques that enhance creativity as they develop images and animations that effectively communicate a variety of messages. Includes a significant hands-on element in which students use state-of-the-art image editing and animation-creation software to develop their assignments and projects. Falls and Springs. (CTDI)

**CMDI2200 The Science of Animation Programming 4 credits**  
Introduces participants to animation programming using state-of-the-art animation tools. Students learn animation programming by experimenting with programs, formulating hypotheses about how to create animation effects and testing their hypotheses. Includes a significant hands-on component in which the instructor is available to assist students with laboratory assignments. Students learn about the math and physics of motion, friction, momentum, and the interaction of objects in motion. Falls and Springs. (SIDI)

**CM2400 Public Speaking 3 credits**  
The fundamentals of public speaking. Practical course that increases skills in both formal and everyday speech situations. Springs.

**CM2770 Introduction to Media and Cultural Studies 3 credits**  
Explores the nature, development and effects of various media in relation to cultural-studies scholarship. Provides an overview of mass communication history and theory, with emphasis on the role of influential media forms in 20th century American culture and beyond. Falls and Springs. (TECH)(TECO)

**CM2910 Introduction to Communication 3 credits**  
A study of the human communication process with special emphasis on improving communication skills. Topics include the self-concept, verbal and nonverbal language, listening and public speaking. Communication settings include interpersonal, small groups, large groups and the mass media. Falls and Springs.

**CM3480 Global Perspectives in the Media 3 credits**  
U.S. media offerings are among the most controversial and most criticized in the world. Students examine some of the causes of these criticisms and alternate media approaches that exist. Because traditional U.S. media offerings are so readily accessible and prevalent, audience members frequently accept their messages with little critical insight. Their perspectives of global and local cultural issues, therefore, remain relatively static. Course participants compare and contrast conventional U.S. media presentations and practices with alternate approaches, both American and global, that challenge traditional thinking. They learn that among the responsibilities of living in a global community are seeking various sources of information and appreciating the similarities and differences that exist within the global community. Falls and Springs. *Prerequisite(s)*: CM 2770. (GACO)

**CM3490 History and Theory of Film and Television 3 credits**  
Explores the historical development of film and television in relation to traditional print media and emerging technologies, as well as different theories that attempt to explain their impact on individuals, groups, societies and cultures. Falls and Springs. *Prerequisite(s)*: CM 2770.

**CM3500 Media Effects 3 credits**  
Explores the effects of mass media exposure on individuals, groups and societies, as investigated through classic and contemporary research endeavors in the social-scientific tradition. Falls and Springs. *Prerequisite(s)*: CM 2770.

**CM3510 Approaching Communication, Media, and Wellness: Theory and Practice of Leisure 3 credits**  
Contemporary scholars suggest we have entered a second media age that has transformed how human beings live their lives and use their minds. With the sophistication of mass media and technological advancements infiltrating our everyday existence, human beings are experiencing a technological super-saturation of their interiority. Examines leisure from historical, philosophical, phenomenological, and cultural perspectives. A distinction between leisure and recreation is central to understanding the value of leisure in our everyday lives. Illuminates the connection between the mind and body, the theory and practice of leisure, and the contribution that leisure makes to our human lives. Leisure cultivates life experiences that promote individual potential, inner transformation, and one's ability to participate in community. Emphasizes leisure as a communicative mode of wellness for a lifetime. Fall of even years. *Prerequisite(s)*: CM 2910. (WECO)

**CM3640 Communication Theory 3 credits**  
Reading, discussion and application of current theories of communication in this writing-intensive course. Falls and Springs. *Prerequisite(s)*: CM 2910. (WRIT)(WRCO)

**CM3650 Communication Research Methods 3 credits**  
Introduces course participants to qualitative research methods, quantitative research methods and statistical procedures that are used regularly by communication studies scholars. Designed to enable students to design, implement and analyze their own methodologically sound research studies and to effectively critique the completed research studies of others. No prior research-design or statistical expertise is required. Falls and Springs. *Prerequisite(s)*: CM 3640. (QRCO)

**CM3700 Film as Popular Culture 3 credits**  
Examines the phenomenon of film as a powerful form of popular culture in a variety of substantive domains. Fall of odd years.

**CM3750 Film and Video Production Techniques 4 credits**  
Provides a hands-on introduction to the various pre-production, production and post-production processes and techniques used in the creation of intriguing film and video projects. In a supportive workshop environment, participants receive training in concept generation, storyboarding and basic script form, and they gain practical experience in producing, directing, lighting, shooting and editing actual video field productions of narrative, documentary and/or experimental forms.

Falls. *Prerequisite(s)*: CM 3480 or CM 3490 or CM 3500.

### CM3760 Advanced Digital Video

**Production 4 credits**

Provides advanced training in digital video production with an emphasis on effective screenwriting approaches and narrative storytelling techniques. Spring of odd years. *Prerequisite(s)*: CM 3750.

### CM3770 Advanced Video Art

**Production 4 credits**

Provides advanced training in digital video production with an emphasis on avant-garde and experimental approaches and representational strategies pertaining to independent videography, including innovative uses of lighting, sound and images and communicating complex messages through shape, structure, repetition, rhythm and tempo. Spring of even years. *Prerequisite(s)*: CM 3750.

### CM3800 Analyzing Television 3 credits

Explores various approaches to analyzing television programs from the 1950s to the present, incorporating insights from several academic disciplines and perspectives (including history, literature, political science, sociology, cultural studies, film and media studies and gender studies). Springs. *Prerequisite(s)*: CM 2770 and (junior or senior status). (INCO)

### CM3870 Introduction to Game Design and Development

**3 credits**

Provides students with the theory and skills needed to begin to design and develop digital games. The focus is on using game-development tools to engage in the design-and-development process. Includes a significant hands-on component. Falls. *Prerequisite(s)*: CM 2770.

### CM3910 Topics in Film and Media Studies

**3 credits**

Explores specialized topics pertaining to film studies, television studies, print media and emerging technologies that are not covered regularly in other Communication and Media Studies courses. These topics are investigated primarily from the critical, cultural and/or social-scientific perspectives. Topics vary by semester and instructor. May be repeated for credit with a different topic. Falls and Springs. *Prerequisite(s)*: CM 2770.

### CM3920 Topics in Screenwriting and Video Production

**1-4 credits**

Explores specialized topics pertaining to screenwriting and video production that are not covered regularly in other course offerings of the Department of Communication and Media Studies. Topics vary by semester and instructor. May be repeated for credit with a different topic. Occasionally. *Prerequisite(s)*: CM 3750.

### CM3950 Internship

**3 credits**

Students engage in a work program to apply, in a practical manner, knowledge gained from their academic coursework at a site related to their major and option. To participate in an internship, students must apply to the Communication and Media Studies Department Chair. Once placed at a site, students will have both an on-campus supervisor and an immediate work supervisor. Students must register for CM 3950 prior to beginning their internship. No retroactive credit will be granted for internships that have already been completed. May be repeated for a maximum of six credits. With permission. Falls and Springs. *Prerequisite(s)*: CM 2770 and CM 2910.

### CM4000 Capstone Senior

**Project**

**3 credits**

A capstone course in which Communication Studies majors produce a comprehensive research paper or creative project that integrates communication theory with one (or more) of their primary areas of study. Springs. *Prerequisite(s)*: CM 3640, CM 3650 and permission of the instructor.

### CM4550 Capstone Internship 3-6 credits

Students engage in a work program to apply in a practical manner both the knowledge gained from Communication Theory and their primary areas of study. To participate in a Capstone Internship, students must apply to the Communication and Media Studies Department Chair. Once placed at a site, students have both an on-campus supervisor and an immediate work supervisor. Students must register for CM 4550 prior to beginning their internship. No retroactive credit will be granted for internships that have already been completed. With permission. *Prerequisite(s)*: CM 3640; Communication Studies major; senior standing; minimum 2.70 GPA.

### CM4700 Film and Identity Politics

**3 credits**

Explores the representation and social construction of non-dominant, co-cultural identities of various groups as communicated in narrative cinematic offerings. Through theoretical readings and weekly film screenings, course participants investigate the complex relationships between narrative film form/style and identity politics (past and present), as well as the ideological and social ramifications of those relationships. Fall of even years. *Prerequisite(s)*: CM 3480 or CM 3490 or CM 3500. (DICO)

### CM4870 Advanced Game Design and Development

**3 credits**

Focuses on the fundamental issues pertaining to game design, with regard to both board games and video games. Explores what a game is, how games work and the kinds of designs one must make in order to create

an interesting game. Examines the different genres of games and the special design considerations that are specific to each genre. A major portion is devoted to the design and development of a multi-player digital game. Springs. *Prerequisite(s)*: CM 3870.

### CM4910 Independent Study 1-3 credits

Offers students the opportunity to gain an in-depth understanding of a topic in communication and/or media studies that is not covered extensively in other courses. Working with guidance from a faculty member with relevant expertise, students select a specialized topic for exploration and prepare an in-depth research paper or project pertaining to that topic. Periodic conferences with the supervising instructor are expected. Consent required of the instructor who will supervise the independent study and the Department Chair.

## CN-Chinese

### CN1010 Fundamentals of Chinese I

**4 credits**

An introductory course with two regular class meetings per week with the instructor. Emphasis is on oral communication. Language in a cultural setting is emphasized throughout the semester. Falls. *Corequisite(s)*: CN 1900. (GACO)

### CN1020 Fundamentals of Chinese II

**4 credits**

Continuation of CN 1010 with increased attention to reading and writing. Springs. *Prerequisite(s)*: CN 1010. *Corequisite(s)*: CN 1905.

### CN1900 Fundamentals of Chinese I Lab

**0 credit**

This self-directed language lab (Hyde 221) accompanies CN 1010. Students have the opportunity to review course material and complete assignments. Falls. *Corequisite(s)*: CN 1010.

### CN1905 Fundamentals of Chinese II Lab

**0 credit**

This self-directed language lab (Hyde 221) accompanies CN 1020. Students have the opportunity to review course material and complete assignments. Springs. *Corequisite(s)*: CN 1020.

## CS-Computer Science

### CS1100 Introduction to Computers

**3 credits**

Covers the basic concepts comprising the current definition of computer literacy. In addition to addressing problem solving using spreadsheets, word processing and presentation software, students learn to create web pages, and discuss a variety of social and ethical issues, such as privacy and intellectual

property rights. Students also learn about how computers and the Internet work by exploring various hardware, software and networking topics. Falls and Springs. (TECH)(TECO)

**CS1140 Introduction to Multimedia Technology 3 credits**

Introduces students to the conceptual and practical aspects of multimedia presentations, including elements of human-computer interface design. By course completion, students should be able to create well-designed presentations that integrate text, images, sound, animation and video, and understand the underlying technology making this possible. Students learn to create Internet-based presentations as well as presentations using applications, such as MS PowerPoint. Additionally, the ethical and social issues associated with computing technology are addressed. Falls and Springs. *Prerequisite(s)*: high school or university computer course and knowledge of the currently installed Operating System. (TECH)

**CS1160 Introduction to Communication Technology 3 credits**

An introduction to electronic communication technologies. Examines the physical nature of information (text, still and video images, sound) and how it is captured, stored and communicated via electronic technology. Treats both analog and digital information. Examines current and potential social consequences of electronic communications and discusses many of the political and ethical questions facing society due to these evolving technologies. Laboratories expose students to use of the World Wide Web, Audio and Video conferencing and other technologies. Falls and Springs. (TECH)

**CS1170 Computing Technology in Criminal Justice 3 credits**

Explores problem-solving with computers from a criminal justice perspective. Students learn fundamentals of how computers store and process information, as well as basic concepts behind communication networks. Emphasizes the ethical use of computers. Students develop awareness of how their privacy may be compromised through computer use. Students explore how computers are used to perpetrate crime, and used by criminal justice organizations to prevent crime. Students are introduced to computer forensics and other techniques to investigate potential criminal acts. A variety of criminal justice databases are discussed and students learn how to create databases and find and analyze criminal justice data. Falls and Springs. (TECH)(TECO)

**CSD1200 Web Expressions 3 credits**

The World Wide Web has allowed everyday people to have a global voice. Students learn

to harness the power of the web to express themselves to the world. Covers the creation of images, sounds, animation, text, hyper-text, video and weblogs, as well as how to be a savvy web user. Not open to students who have earned credit for CMDI 1200. Falls and Springs. (TECH)(CTDI)

**CSD1300 Digital Media Creation 3 credits**

Draws upon students' creative ability in creating and manipulating digital media through the use of programming. After discussing some of the basic elements in representing various media forms such as text, image, sound and movie, within computer, covers various simple but general programming skills and explains how to apply them to manipulate these digital media forms. Three hours of lectures and/or labs each week. Springs. (CTDI)

**CS2010 Computing Fundamentals 3 credits**

To explore some topical applications and technologies such as robotics, artificial intelligence and networking, first examines some of the fundamental aspects of computing including: how a computing machine stores, manipulates and transforms numbers, words, images and sounds, changing them from mere data into useful information; strategies for solving computational problems (algorithmic thinking); expressing computational solutions in various computer languages from assembly through icon-driven graphical languages (4GLs); historical, social and theoretical issues. Includes a weekly hands-on lab through which students experience a variety of computing environments. Two hours of lecture and two hours of lab each week. Falls and Springs. *Prerequisite(s)*: Level 2 or 3 on math placement exam or MA 1800 (may be concurrent). (TECH)(TECO)

**CS2080 Visual Basic 3 credits**

A presentation of the Visual Basic Application Development Environment. Visual Basic allows students to concentrate upon the overall screen and function design, leaving procedural details to the computer. Two lecture hours and two hours of computer lab. Falls. *Prerequisite(s)*: CS 2370.

**CS2220 Computer Hardware 3 credits**

Focuses on the organization and structure of the major hardware components of computing systems. Expands upon the digital logic and notions of internal data representation begun in CS 2010, and then develops more depth in topics such as CPU structures and control, memory systems, I/O systems and the mechanics of information transfer. The nature of computing and the role of operating systems are examined from the hardware context. Two hours of lecture and two hours of lab each week. Springs. *Prerequisite(s)*: CS

2010 and (Level 2 or 3 on math placement exam or MA 1800). (TECH)

**CS2350 Software Tools 3 credits**

The fundamentals of fourth-generation languages (4GL's). Fourth Generation Languages allow the user to concentrate upon overall screen and function design leaving procedural details to the computer. Students will be provided instruction in various 4GL languages. Springs. *Prerequisite(s)*: CS 2080.

**CS2370 Programming in Java 4 credits**

Introduces students to computer programming with the object-oriented approach. As a first course in computer programming, it covers the classic programming constructs of variables, loops, conditions, arithmetic calculations, functions, parameters and arrays. Object-oriented programming constructs and concepts are introduced such as object-oriented problem conceptualization, class definition, object instantiation, method definition and invocation, class inter-relationships and inheritance. A brief introduction to graphical user interfaces and event-driven programming is made. Three lecture hours and two hours of computer lab. Springs. *Prerequisite(s)*: CS 2010 or CS 2360.

**CS2380 Client/Server Programming 3 credits**

A second programming course which builds on the concepts from CS 2370. Reinforces the programming constructs learned in the first course and then focuses on more advanced programming techniques. More sophisticated object scenarios are introduced in context of solving more difficult programming problems, especially those involving the client/server paradigm. Students learn to create sophisticated graphical user interfaces and utilize input from these interfaces in an event-driven program structure. Students also learn to use language provided data structures such as vectors, stacks and queues, and write applications using data communication features such as sockets. Multithreading completes the techniques necessary for client/server application programming. Two lecture hours and two hours of computer lab. Falls. *Prerequisite(s)*: CS 2370.

**CS2400 Scientific Programming Using FORTRAN 3 credits**

Analysis of scientific and mathematical problems while introducing the FORMula TRANslation language, FORTRAN. Intended for students of science or mathematics. Springs. *Prerequisite(s)*: (CS 1100 or CS 2010) and (MA 2140 or equivalent).

**CS2470 Systems Programming in C/C++ 2 credits**

Gives students who are already proficient programmers experience in systems-level programming in C/C++. In particular, stu-

dents learn how to create C/C++ programs that interact with the hardware and other software on a machine. Springs. *Prerequisite(s)*: CS 2380.

**CS2990 Algorithm Development Under Time Constraints 1 credit**

Prepares students to develop and code algorithms under severe time constraints to prepare for the ACM Programming Contest. Falls. *Prerequisite(s)*: permission of the instructor.

**CS3020 Web Programming 3 credits**

Focuses on issues concerning the design, implementation and impact of user-friendly, interactive web pages and easy-to-navigate secure web sites. Covers a variety of web page and web site development technologies. Two lectures and one lab per week. Falls. *Prerequisite(s)*: CS 2370.

**CS3220 Data Structures and Algorithm Analysis 4 credits**

Formal study of algorithms associated with various data structures. After precisely defining a mathematical model for algorithm analysis, there is a systematic study of various data structures such as list, tree and graph. Different designs of those data structures and operations are presented and discussed. In particular, the time complexity and space complexity of those algorithms are evaluated, analyzed and computed. Some other important topics on computational complexity such as NP-completeness and approximation algorithms are also covered. Springs. *Prerequisite(s)*: CS 2380 and MA 3200.

**CS3240 Data Communication and Computer Networks 3 credits**

Provides an introduction to the study of communications. Current methods and practices covered. Topics include data transmission, communication techniques, packet switching, routing, long-haul vs. local-area networks and performance considerations. Falls. *Prerequisite(s)*: CS 2370.

**CS3440 Multimedia 3 credits**

Use and development of multimedia-combining text, graphics, sound, still and video images and animation into a unified, seamless document. Examines the nature of the various media, the capture or creation, digitization and modification of each media type, the architecture and technology of multimedia systems, the principles behind effective multimedia presentations, analysis and design of GUI systems and multimedia development through the use of common software packages. Treats both fundamental concepts and current and emerging technologies. Attention is given to both CDROM and network based media delivery. Lecture and lab are combined as needed. Spring of even years. *Prerequisite(s)*: CS 2380.

**CS3500 Introduction to Artificial Intelligence 3 credits**

An introduction to the basic theory and major applications of artificial intelligence. Covers general issues of AI such as its development, social impact and philosophical implications. Emphasizes the fundamental issues of AI such as problems and state spaces, search strategies, logic reasoning and various knowledge representation techniques. Discusses AI application domains, such as learning, expert systems, planning and game playing. An AI programming language (Lisp or Prolog) is used throughout the course. Students are expected to use the language to solve AI related problems. Fall of odd years. *Prerequisite(s)*: CS 3160 or CS 3220.

**CS3600 Database Management Systems 4 credits**

Covers the principles and practice of relational database design and analysis, including topics of entity-relationship modeling, functional dependencies, normalization, relational algebra and relational calculus, as well as their SQL correspondents. Other related issues are discussed such as other data base models, object-oriented database scheme, concurrent data access, recovery and security. One or more projects form a significant part of this course. Falls. *Prerequisite(s)*: CS 2370 and (MA 2200 or MA 3200).

**CS3700 Computer Graphics 3 credits**

Fundamental concepts of event-driven, interactive graphics using a modern API (such as OpenGL). Topics include: graphics systems, hardware and models, 2-D and 3-D rendering, events and interactions, geometric objects and their transformations, viewing and projections, basic concepts of color and shading, hierarchical and object-oriented modeling, discrete/raster operations; and an introduction to visualization. Significant programming projects connect theory to practice. Taught in C/C++. Spring of even years. *Prerequisite(s)*: (CS 3160 or CS 3220) and (MA 2200 or MA 3120).

**CS3720 Systems Analysis and Design 3 credits**

The study of computerized information as a resource. The study of the systems development life cycle. Integrating computer technology, networks, systems analysis and design and organizational behavior in the building of large-scale applications or decision support systems. The use of CASE tools. The importance of service and testing of information systems. Springs. *Prerequisite(s)*: CS 2370, CS 3240 and CS 3600. (WRIT)

**CS3780 Introduction to Computational Theory 3 credits**

Intended to provide a solid theoretical foundation for computer science students. A series of artificial machines such as finite

state automata, push-down automata and Turing machines are defined and studied as formal models of computers. Studies their corresponding formal languages such as regular, context-free and unrestricted languages. Discusses related issues such as Church's Thesis, Halting problem and general incompatibility. Falls. *Prerequisite(s)*: (CS 3160 or CS 3220) or (MA 3120 and MA 3200).

**CS3820 Human-Computer Interaction 3 credits**

Concerned with the design, evaluation and implementation of interactive computing systems for human use. It briefly surveys the most important conceptual models of human psychology applied to computer interactions, and stresses the importance of good interfaces and interface design to human-computer interaction. It treats topics such as interface quality and methods of evaluation, user-centered design and task analysis, dialogue tools and techniques, windowing, prototyping and user interface implementation, I/O devices and the use of color and sound. It trains the Computer Science student to apply the theories of HCI to the task of design by surveying the techniques available in the discipline and demonstrating where and when they are applicable via a combination of scientific-theory understanding, engineering modeling and the solution of design problems facing the user interface designer. Spring of odd years. *Prerequisite(s)*: CS 2380.

**CS4140 Software Engineering 3 credits**

Presents fundamental principles of software engineering. Emphasizes software design, implementation and maintenance. Techniques used in the major phases of the software life cycle such as rapid prototyping, object-oriented design and module testing, are discussed. Software teams complete a term project that includes system documentation, design and implementation. Falls. *Prerequisite(s)*: CS 3220.

**CS4220 System Administration 3 credits**

Introduces students to unix system administration. Each student participates in installing and configuring a unix-like operating system. Topics include the unix file system, user management, task management, unix daemons, network management, performance analysis, security, policy and ethics. Students also learn to use a scripting language, various unix commands and tools. Falls. *Prerequisite(s)*: CS 3720.

**CS4250 Computer Architecture 3 credits**

Fundamental concepts of computer design using a quantitative, performance-oriented approach. Topics include: measurement of performance instruction sets design; hardware and micro-coded processor design; pipelining; memory hierarchy; I/O. Assembly language programming is studied through a



series of short projects. Falls. *Prerequisite(s)*: CS 2220 and CS 3220. (WRIT)

**CS4310 Operating Systems 3 credits**  
Covers the major concept areas of operating systems for both large and small computers and the interrelationship between the operating system and computer architecture. Topics include: history, tasking, process synchronization, scheduling, memory organization, device management, file systems, security issues, distributed and real-time systems. One or more projects form a significant part of this course. Springs. *Prerequisite(s)*: (CS 3160 or CS 3220) and (CS 4250 or CS 4300).

**CS4400 Computer Networks and Protocols 4 credits**  
Focus is on providing a data stream for higher-level services to operate over. It is primarily concerned with the transport layer and below. TCP/IP is the predominant protocol studied. Others, such as Novell NetWare, are covered to provide comparative examples. Monitoring, diagnosis and administration of the infrastructure are studied. Lecture and laboratory. Springs. *Prerequisite(s)*: CS 2380 and CS 3240.

**CS4420 Computer Security 3 credits**  
Provides an introduction to the theory and practice of computer security and information warfare. In particular, examines issues in physical security, network security, database security, intrusion detection, detection of Trojan horses, viruses, worms and coordinated network attacks, access control, cryptography, legal and ethical issues including privacy and copyright, as well as various computer security policy issues. Springs. *Prerequisite(s)*: CS 2380, CS 3240 and CS 3600.

**CS4500 Topics in Computer Science and Technology 3 credits**  
Explores specialized topics pertaining to computer science and information technology that are not covered in other Computer Science and Technology courses. Topics vary by semester and instructor. May be repeated with a different topic for no more than six credits. Springs. *Prerequisite(s)*: variable, depending on topic selection; consult course instructor.

**CS4520 CyberEthics 3 credits**  
Surveys the ethical issues involved in the use of information technology. Provides an introduction to a variety of ethical theories that can be used as guides for thinking about these issues. Emphasizes the use of case studies to practice the application of ethical frameworks to real problems facing today's society. Serves as part of the senior capstone experience. Falls. *Prerequisite(s)*: junior status. (INTG)(DICO)(INCO)(WRCO)

**CS4750 Senior Project 3 credits**  
Available only to senior Computer Science and Information Technology majors. Working under faculty direction, students select a problem or task, analyze it and develop a solution. The problem/task selected must involve some aspect of computing. At the end of the semester, each student makes a formal, public presentation in an appropriate format determined by the faculty. In addition, students meet weekly, as a group, to discuss a variety of topics related to investigation, research and development, the process of public presentation of results, and to present the other students with an overview and regular progress reports on their own project. By individual enrollment with the Chair's signature. With permission. Falls and Springs. *Prerequisite(s)*: all required 2000 and 3000 level courses.

**CS4910 Independent Study 1-3 credits**  
Intensive individual work in a particular area of Computer Science not otherwise available through the curriculum. Topics to be chosen by the student in consultation with the instructor. Consent required of the instructor who will supervise the independent study and the Department Chair.

**CS4920 Computer Science Internship 1-6 credits**  
Students leave the campus to work in a professional situation in the computing field with or without financial compensation. The employing agency provides a carefully-planned sequence of tasks intended to provide the student with a learning experience in the field of computing. Students have supervisors both in the Computer Science and Technology Department and in the employing agency who will jointly coordinate the student's work. Students must submit to the Department a written proposal prior to undertaking the internship and a final report upon its completion. May be repeated for up to six credits. *Prerequisite(s)*: final approval of the internship will come from the Department Chair; Computer Science or Information Technology major and completion of major courses appropriate to the position (to be determined by the supervising faculty member).

## DN—Dance

**DN1230 Ballet I 1-2 credits**  
Beginning ballet technique taught through barre and center floor exercises. Emphasis on proper positioning, alignment and basic ballet steps and combinations. May be repeated for no more than two enrollments or no more than three credits. Falls.

**DN1260 Modern Dance I 1-2 credits**  
To develop an appreciation for creative movement, movement exploration and modern dance. To develop skills in modern dance.

May be repeated for no more than two enrollments or no more than three credits. Falls.

**DN1280 Jazz Dance I 1-2 credits**  
Beginning jazz technique taught through rhythmic isolation exercises, center floor stretches and jazz combinations. Emphasis on style, flexibility and learning a jazz routine. May be repeated for no more than two enrollments or no more than three credits. Falls.

**DN1650 Topics in Dance 1 credit**  
Introduction to the study of various areas of dance. May be repeated with a different topic for no more than two credits. Occasionally.

**DN1740 Tap I 1-2 credits**  
Introduction to the study of dance technique. May be repeated for no more than two enrollments or no more than three credits. Falls.

**DN2260 Modern Dance II 1-2 credits**  
Modern dance technique. Emphasis is on the craft or skill of the dancer rather than on the creative exploration of dance. May be repeated for no more than two enrollments or no more than three credits. Springs.

**DN2330 Movement Concepts for Elementary Education 1 credit**  
Investigation into Rudolf Laban's movement concepts to affect a basic understanding of dance/movement for elementary education. Movement techniques are identified and integrated into lesson plans with emphasis on movement preparation, themes and individual projects. No previous dance movement is necessary. Falls and Springs.

**DN2370 Dance Composition I 3 credits**  
Introduction to basic dance compositional theories resulting in a final performance. Fall of even years. (ARTS)

**DN2390 Topics in Dance 1 credit**  
Introduction to the study of various areas of dance. May be repeated with a different topic for no more than six credits. Occasionally. *Prerequisite(s)*: permission of the instructor.

**DN2520 Tap II 1-2 credits**  
Intermediate technique and combinations for students who have some formal dance training. Gig work and hoofing form the technique basis for the class. Wings, pull-backs, jumps and turns are added. May be repeated for no more than two enrollments or no more than three credits. Springs. *Prerequisite(s)*: DN 1740.

**DN2670 Jazz Dance II 1-2 credits**  
The study of beginning/intermediate jazz dance. May be repeated for no more than two enrollments or no more than three credits. Springs.

**DN2710 Ballet II** 1–2 credits  
The study of ballet at a beginning/intermediate level. May be repeated for no more than two enrollments or no more than three credits. Springs. *Prerequisite(s)*: DN 1230.

**DN2720 Pointe I** 1 credit  
Ballet Pointe technique for students with one-two years of training. Unscheduled. *Prerequisite(s)*: permission of the instructor.

**DN3010 Contemporary Dance Ensemble** 1 credit  
Open to all students. The audition is for class placement only. The study of contemporary movement/dance techniques resulting in presentations of dance works by various choreographers, when available, in workshop and concert performances. May be repeated for credit. Falls and Springs.

**DN3020 History of Modern Dance and Technique** 3 credits  
The study of modern dance history and dance technique. Modern dance history encompasses the 20th century, beginning with Isadora Duncan, continues with emphasis on Martha Graham and ends with contemporary artist Twyla Thorp. The modern dance technique demonstrates various contemporary styles with emphasis on the movement phrase. Fall of odd years. *Prerequisite(s)*: DN 1260 and DN 2260.

**DN3050 World Dance** 3 credits  
Explores the movement styles of several dances from around the world from categories including Asian dance, African dance, Islamic dance and Western dance. In addition to studying the dances themselves, explores how each of these dances evolved within the cultures and societies they originated from, as well as how they exist within our present day cultures and societies. Through videos, critical/descriptive literature and photographs, explores the political, social, religious and other influential elements that have dictated the outcome of these dances. All theoretical frameworks developed throughout this course are combined with dance. Fall of even years. (WRIT) (GACO)

**DN3100 Movement Concepts for Dance Education** 3 credits  
Investigates and integrates both Rudolf Laban's Movement Concepts (Body, Effort, Shape) and the Bartenieff Principles within the framework of dance education. Spring of even years. *Prerequisite(s)*: DN 2330.

**DN3200 Dance Styles for Musical Theatre** 1 credit  
Studies the dance styles of musical theatre dance choreographers. Methods of inquiry include observation of movement and re-creation of choreography. Springs.

**DN3260 Topics in Dance** 1–3 credits  
The study of various areas of dance on the intermediate to advanced level. May be repeated with a different topic for no more than 12 credits. Occasionally. *Prerequisite(s)*: permission of the instructor.

**DN3270 Advanced Modern Dance** 1–3 credits  
The study of intermediate/advanced contemporary Modern Dance techniques and Movement Theories. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

**DN3320 Dance Composition II** 3 credits  
Intermediate to advanced composition, resulting in a final performance. Springs. *Prerequisite(s)*: DN 2370.

**DN3360 Advanced Ballet** 1–3 credits  
Designed for the intermediate ballet student. Students entering this course should have a minimum of three-four years of training in Ballet. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

**DN3500 Dance Pedagogy I** 3 credits  
An introduction to dance pedagogy. Exploration and understanding of the historical trends, theoretical concepts, principles and methods of pedagogy are addressed through lectures, readings, videos, discussion and interactive class application. Specific attention is given to the "problem-solving approach to learning" methodology established by the New Hampshire Curriculum Framework for the Arts for Dance K–12. Fall of odd years. *Prerequisite(s)*: DN 2330.

**DN4010 Dance Practicum** 1–3 credits  
Practical application and an extension of methods and materials covered in previous teaching and performance courses. Experiences may include teaching, performing, choreographing and assisting technically in performance situations. May be repeated for no more than six credits. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

**DN4410 Dance Internship** 3–12 credits  
The Dance Internship is an opportunity for students to gain meaningful work experience by applying the knowledge and skills learned in course work to on-the-job assignments in host organizations. Includes self-assessment, the design of a learning contract, reflection, synthesis and assessment. The internship is a supervised assignment for a prescribed number of working hours. Internships are established and supervised by the internship advisor. Repeatable for up to 12 credits. Enrollment for internships must be completed during the first two weeks of the registration period. *Prerequisite(s)*: junior status; must be taken before the semester immediately

prior to graduation; departmental approval; minimum 2.50 cumulative GPA.

**DN4500 Dance Pedagogy II** 3 credits  
Further explores the material introduced in Pedagogy I by "hands-on" application of the knowledge and competencies learned. Increased attention is given to the process of developing lesson plans and their implementation in the classroom presentation. Supervised practicum experience working with dance students in a studio environment is a substantial portion of Pedagogy II as well as lectures, readings, videos, discussion and interactive class exercises. Requirements include an intermediate level of dance technique in at least two of the following: ballet, jazz, tap and modern, as well as a strong understanding of dance concepts and the completion of Pedagogy I. Spring of even years. *Prerequisite(s)*: DN 3500.

**DN4910 Independent Study** 1–3 credits  
Advanced work in specialized area of interest, selected and pursued in consultation with a dance faculty advisor. Consent required of the instructor who will supervise the independent study and the Department Chair.

## EC—Economics

**EC2000 Survey of Modern Economics** 3 credits  
Designed to survey the essential features of both modern macroeconomics and microeconomics. This course does not substitute for EC 2550 or EC 2560. Not open to Business majors. Not open to students who have earned credit for EC 2550 or EC 2560. Falls and Springs. (SPSY)

**EC2550 Macroeconomics** 3 credits  
Macroeconomics, the study of aggregate income and employment determination through the use of aggregate demand and supply analysis. Emphasis is placed on the application of modern fiscal and monetary policy tools to treat problems of unemployment and inflation. Falls and Springs. *Prerequisite(s)*: completion of high school Algebra II and Geometry, or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (SPSY)(GACO)

**EC2560 Microeconomics** 3 credits  
Microeconomics, conventional theory of the behavior of firms, consumers and markets. Emphasis is placed on the determination of output and prices of products and factors of production in competitive and non-competitive markets. Falls and Springs. *Prerequisite(s)*: completion of high school Algebra II and Geometry, or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (SPSY)



**EC3480 Development of Economic Thought 3 credits**

Traces the history of economic thought from the Scholastic Doctors through the Keynesian Revolution, highlighting such schools of thought as Mercantilism, Physiocracy, Classical Economics, Marxism, Marginalism and Institutionalism. Spring of even years, according to demand. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC3510 Intermediate Macroeconomics 3 credits**

Classical and Keynesian models of national income determination are presented as background to a study of contemporary theories of inflation, unemployment and economic growth. Also offers analyses of ongoing controversies concerning the effectiveness of governmental efforts to stabilize the economy: the Monetarists vs. the Fiscalists and the debate over rational expectations. Falls and Springs. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC3520 Intermediate Microeconomics 3 credits**

Designed to provide students with a working knowledge of the determination of prices and outputs in a market economy. The fundamentals of marginal analysis as it applies to consumption, input, output and pricing decisions are analyzed under conditions of perfect competition, monopoly and monopolistic competition. Students also become acquainted with the concepts of general equilibrium, welfare economics and market failure. Falls and Springs. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC3580 Managerial Statistics 3 credits**

Application of statistics and economic theory to aid in managerial planning and marketing. The fundamentals of probability, regression analysis and microeconomic theory are applied to the problems of demand estimation, costs, pricing strategies and forecasting. Emphasizes case studies and use of the business statistical software. Falls and Springs. *Prerequisite(s)*: (BU 2240 or MA 2300), EC 2550 and EC 2560.

**EC3600 Public Finance 3 credits**

Designed to provide undergraduate students in economics, finance and political science with an understanding of the economic basis for government. Covers the rationale for government expenditures and taxation, including the criteria for government intervention, pricing analysis for government-provided goods, the theory of government expenditure and taxation, the administration of taxation programs and responses to taxation. Springs. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC4020 Labor Economics 3 credits**

Designed to provide students with a working knowledge of the application of economic

tools and concepts to the labor market. Topics include (1) the fundamentals of labor market operations, (2) the economic analysis of labor legislation and (3) the impact of American unions on the firm's decision making as well as the national economy. Falls, according to demand. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC4440 International Economics 3 credits**

Introduction to modes of business operation and the economic factors (comparative advantage, tariffs, balance of payments accounts, trade deficit, etc.) which affect international trade. Study of principles, practices and theory of how and why nations trade. Falls, according to demand. *Prerequisite(s)*: EC 2550 and EC 2560. (GLOB)

**EC4460 Money and Banking 3 credits**

Designed to provide students with a working knowledge of the roles of commercial and central banks in the U.S. economy. Topics of special interest include: (1) monetary policies, including interaction effects with fiscal policy, and influences on the "real" sector of the economy; (2) analysis of the role of monetary factors in our recent inflation-prone economy; (3) the significance to the domestic economy of international financial developments such as the "declining dollar." Falls and Springs. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC4600 Economics Internship 3-12 credits**

The Economics Internship offers students an opportunity to utilize the theories and key themes covered in their courses in a real life setting. Internship students work with their intern advisor and employer to craft a set of learning objectives that incorporate reflection, on-site visitation and assessment measures. The internship is a supervised assignment for a prescribed number of working hours. Internships are established and monitored by the internship advisor. Completion of BU 3720 is highly recommended. Repeatable for up to 12 credits. Enrollment for internships must be completed during the first two weeks of the semester. With permission. *Prerequisite(s)*: junior status; taken before the semester immediately prior to graduation; minimum 2.50 cumulative GPA.

**EC4610 International Finance and Economic Policy 3 credits**

The study of international finance (international monetary relations) covers financial policies, international loans, balance of payments accounting, exchange rates, reserve and payments currencies and international liquidity. Considers the impact on the U.S. economy of international financial developments. Springs. *Prerequisite(s)*: EC 2550 and EC 2560.

**EC4910 Independent Study 1-3 credits**

Individual study and research affording opportunity for advanced work in a field of economics selected by the student. Consent required of the instructor who will supervise the independent study and the Department Chair.

## ED—Education

**ED2000 Introduction to Education 3 credits**

Provides an examination of the foundations of education and the motivations for selecting teaching as a profession. Focus is on secondary and middle education content areas, and K-12 specialization areas (art, music and physical education). Topics include overviews of pre-service teacher preparation at the University and certification in New Hampshire, societal issues affecting public education, a review of American education history, school finance and school law, and study of lesson planning and classroom strategies. Observation/participation in middle/high school settings required. Falls and Springs.

**EDDI2100 Transformation Through the Arts 3 credits**

The arts are an essential component of daily life, impacting all cultures and societies with their transformational qualities. Students explore their creative process and enhance their imaginations and tolerance for ambiguity. Through a variety of art forms, students develop their confidence and ability to express themselves creatively and critically, as they investigate the power of visual art, music, theatre, and dance to transform their thinking and their lives. Falls and Springs. (CTDI)

**ED2200 Using Technology to Support Teaching and Learning 3 credits**

An introduction to the role of instructional and educational technology in the teaching and learning process for K-12 students. Students investigate technology integration theories as well as gain hands-on experience with hardware and software tools designed for managing the classroom experience, delivering materials to learners, communicating with learners and families and assessing learning. Students apply current theory and instructional techniques while learning to use word processors, spreadsheets, databases, presentation software, digital video, simulations, web applications and other software applications designed to address specific learning needs of children. Includes designing and delivering a lesson using technology, observing a technologically enhanced classroom, creating instructional materials using multiple technology tools, evaluating hardware and software tools and building components of an electronic portfolio. Springs. (TECH) (TECO)

**ED2550 Mentoring  
Adolescents****2 credits**

This seminar is designed to help University students develop the tutoring skills, communication skills and knowledge about adolescence necessary to mentor middle school students. The seminar meets twice a month for two hours each session. Each seminar session is a time for discussion, reflection and practicing new skills. Mentoring a middle school student involves, minimally, meeting with the student once a week at her/his school. May be repeated for a maximum of eight credits. Falls and Springs.

**ED3050 Foundations of Teaching and  
Learning****3 credits**

An introduction to the teaching profession. Explores a variety of strategies and approaches for effective teaching. Topics include: diverse environments and student populations, lesson planning and reflection, state standards, learning styles, small group and whole class instruction, and assessment tools and strategies. Candidates become familiar with the roles and responsibilities of public school teachers as well as the environment of public schools. Candidates participate in a practicum in an assigned public school. Falls and Springs. *Prerequisite(s)*: CD 1000 and full acceptance to the Teacher Certification Option. *Corequisite(s)*: ED 3051, ED 3052, and RL 3050.

**ED3051 Designing Positive Learning  
Communities****3 credits**

Designed to assist prospective educators in promoting prosocial behaviors in the school. Emphasis is placed upon strategies to promote cooperation and address conflict. Strategies for dealing with more severe behavior conflicts are also presented. Candidates participate in a practicum in an assigned public school. Falls and Springs. *Prerequisite(s)*: CD 1000 and full acceptance to the Teacher Certification Option. *Corequisite(s)*: ED 3050, ED 3052, and RL 3050.

**ED3052 Assessing Children in  
Schools****3 credits**

Studies the methods and techniques of educational measurement as well as evaluation, construction and consideration of teacher-made assessments. Selective uses and interpretation of standardized tests. Modification of teaching plans and instructional approaches. Review of teaching strategies in relation to student assessment results. Falls and Springs. *Prerequisite(s)*: CD 2002. *Corequisite(s)*: ED 3050, ED 3051 and RL 3050.

**ED3070 Social Studies and Science  
Curriculum and  
Instruction****3 credits**

Focuses on integrated social studies and science curriculum to promote critical thinking skills instruction and inquiry-based learn-

ing in the natural world and in the world of human experiences. Emphasis is placed on citizenship education, constructivist learning and state and national standards for social studies and science. Candidates research instructional strategies and processes that incorporate a variety of resources, materials and technologies. Candidates design, deliver and assess an integrated unit to be taught during their public school practicum. Falls and Springs. *Prerequisite(s)*: completion of Cluster I and full acceptance to the Teacher Certification Option. *Corequisite(s)*: MA 3070, RL 3070 and SE 3070.

**ED3080 Teaching in the Content  
Areas Practicum****1 credit**

Taken concurrently with the Cluster II courses, students participate in three on-campus seminar sessions and one day a week in the field. Placements in schools range from K-6 and last approximately 12 weeks. Students are expected to attend all seminars and participate fully in their on-site placements. This practicum experience is supervised by on-site cooperating faculty as well as University faculty; its purpose is to gain meaningful experience and relate course content to best practices in an educational setting. Students are required to submit full lesson plans, reflections, and evaluations to attain a passing grade. May be repeated for a maximum of three enrollments. Pass/No Pass. Falls and Springs, beginning Spring 2012. *Prerequisite(s)*: completion of all program requirements for certification by the start of the Cluster II semester. *Corequisite(s)*: ED 3070, MA 3070, RL 3070, SE 3070.

**ED3350 Classroom Planning,  
Management, and Organization  
for Middle School and Secondary  
Educators****3 credits**

Focuses on ways to plan proactively in the secondary classroom setting. Topics include implementing appropriate classroom procedures, managing professional responsibilities and student academic work, using effective communication skills, organizing cooperative groups, and intervening to address problem behaviors. Candidates have the opportunity to demonstrate their ability to construct a unit plan related to their area of study, to assess student learning effectively, and to demonstrate their understanding of the role that technology plays in their classroom. To be taken by secondary education majors in the semester before they student teach. Falls and Springs. *Prerequisite(s)*: middle school and secondary education majors. (TECO)

**ED4230 Education Practicum:  
(Topic)****1-12 credits**

A supervised practicum experience in one of several cooperating institutions or agencies in New Hampshire. The purpose is to gain meaningful work experience through

applying knowledge learned in previous course work to the on-the-job situation. Commitment includes a negotiated number of hours per week and participation in seminars. Supervision is done by the institution or agency concerned and by the University faculty. Students anticipating more than three hours of credit should confer early in the program with the Department Chair to free up sufficient blocks of time in their program. Offered on demand. *Prerequisite(s)*: permission of the advisor and the Department Chair.

**ED4300 Elementary Student  
Teaching****12 credits**

Designed as the culminating field-based experience for Childhood Studies Teacher Certification K-8 Option candidates leading to teacher certification. It is a continuous, full-time (five days a week) experience of 12 credits during which candidates gradually assume responsibility for a full range of teaching activities encountered in a school situation. This provides an opportunity for demonstrating the appropriate professional skills, attitudes and dispositions essential for successful teaching. Student teaching is conducted under the supervisory guidance of school and clinical faculty. Several required seminars complement the experience. Pass/No Pass for students following the 2008-09 and subsequent Catalogs. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of all program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4500.

**ED4400 Elementary Student  
Teaching****12 credits**

Designed as the culminating field-based experience for Childhood Studies Teacher Certification K-8 Option candidates leading to teacher certification. It is a continuous, full-time (five days a week) experience of 12 credits during which candidates gradually assume responsibility for a full range of teaching activities encountered in a school situation. This provides an opportunity for demonstrating the appropriate professional skills, attitudes and dispositions essential for successful teaching. Student teaching is conducted under the supervisory guidance of school and clinical faculty. Several required seminars complement the experience. Letter graded for students following pre-2008-09 Catalogs. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of all program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4500.

**ED4401 Inclusive Elementary Student Teaching 12 credits**

Designed as the culminating field-based experience for the Childhood Studies Teacher Certification K–8 Option as well as the General Special Education Option K–12, leading to teacher certification. It is a continuous, full-time (five days a week) experience of 12 credits during which candidates gradually assume responsibility for a full range of teaching activities encountered in a school situation. Candidates are required to complete their general education teaching experience within a 10-week period, as well as a six-week experience within a special education context. This provides an opportunity for demonstrating the appropriate professional skills, attitudes and dispositions essential for teaching in an inclusive program. Student teaching is conducted under the supervisory guidance of school and clinical faculty. Letter graded for students following pre-2008–09 Catalogs. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4500.

**ED4420 Secondary Student Teaching 8–15 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of 8–15 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.50 cumulative GPA; minimum 2.70 cumulative GPA for English/Teacher Certification students; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ED4430 Secondary Student Teaching 10 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of 10 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student

teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls only. *Prerequisite(s)*: Math Majors only; minimum 2.50 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ED4440 Kindergarten Through Grade 12 Student Teaching 15 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of 15 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.50 cumulative GPA; minimum 2.70 cumulative GPA for Art Education and Health Education/School Health majors; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ED4460 Student Teaching K–12: Elementary Component 7.5 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of 7.5 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.50 cumulative GPA for Music Education; minimum 2.70 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4470.

**ED4470 Student Teaching K–12: Secondary Component 7.5 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of 7.5 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.50 cumulative GPA for Music Education; minimum 2.70 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4460.

**ED4500 Childhood Studies Teaching Seminar 1 credit**

Taken concurrently with Student Teaching and intended to act as a capstone experience in the Teacher Certification program. Students participate in both on campus seminars and web-based discussions, such as governance, school law and working with parents. Preparation and presentation of a professional (electronic) portfolio is the culminating experience. Portfolios will be on display at an informal reception for University faculty and public school teachers and administrators at the end of the semester. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of Cluster II; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ED 4300 or ED 4400 or ED 4401.

**ED4670 Interpersonal and Group Dynamics 3 credits**

Intensive experiential study of the dynamics of small groups through the use of the class itself as a laboratory study group. Students examine their own behavior and its effects on others. Develops conceptual ability and behavioral skills. Review of readings in group dynamics and interpersonal relations. Winterim.

**ED4800 Practicum in Integrated Arts 3 credits**

A supervised practicum experience in one of several cooperating schools and organizations committed to offering the highest quality arts experiences for children. Students have the opportunity to apply their knowl-

edge of arts integration to a pre-approved arts project involving children in grades K-8. Commitment includes bi-monthly conferencing with the instructor, as well as a total of 120 hours spent working directly on the project. Supervision is done by the pre-approved schools or organizations involved and the University faculty. With permission. *Prerequisite(s)*: CD 2540 or ED 2540.

**ED4910 Independent Study 1–4 credits**  
Enrichment of the background of students in education through the pursuit of a special topic pertinent to their interests and abilities. Chance for an in-depth study of a problem in the field of education. Consent required of instructor who will supervise the independent study and the Department Chair.

## EN–English

**EN1200 Composition 3 credits**  
Reading, discussion and writing of expository prose. Designed to develop proficiency in written expression. Devoted to the writing and revision of themes of exposition and library research. Falls and Springs.

**END1300 Murder, Mayhem, and Madness: Reflections of the Self and Society in Literature 3 credits**  
Introduces students to fiction, poetry, and drama that offer opportunities to examine the relationship of self to society. What does it mean to be sane or insane, normal or abnormal? What behaviors affect others in destructive ways and how does society deal with those who seem to be different from the norm? Springs. (LITY)(SSDI)

**END1330 Arthurian Legends: Representations of Leadership, Romance, National Identity, and Spiritual Quest 3 credits**  
A study of the numerous stories generated about King Arthur, Queen Guinevere and their legendary court, examining why retellings of these works are still relevant today. Examines how and why various versions of these stories originated in different cultures at different times. Earlier cultural contexts of Europe and the Middle East, in terms of religion, national identity and construction of gender are addressed as are modern contexts that provide multiple interpretations of these materials. Falls. (LITY)(PPDI)

**END1350 Twice-Told Tales 3 credits**  
Close reading and analysis of the way stories or themes are repeated and changed as societies evolve. Students explore chronologies of selected themes—such as views of death, love and hate, and rebellion—examining early and modern versions and placing them in a variety of cultural, historical and technological contexts. Course content may vary depending on instructor. Falls and Springs. (LITY)(PPDI)

**END1401 Writing and the Creative Process 3 credits**  
What does it mean to be creative? Where does inspiration come from? How do writers and artists think? Students seek out sources of inspiration, write creatively and often, share their work and develop habits and practices which can make imaginative writing and other creative enterprises a lasting and meaningful part of their lives. Falls and Springs. (CTDI)

**END1450 The Outsider 3 credits**  
Humans are both social and individual. For centuries, literature has highlighted, debated and critiqued the relationship between the individual and society, the impact the individual has on society and that which society has on the development of individual identity, behavior and the formation of beliefs. Cultures differ in the relative value they give to the individual and to the group; literature allows us to look at that value in terms of our roles as individuals and as (non)conformers to social expectations. Through examples taken from writing and film, analyzes the self and society through a selection of topics which include gender, sexuality, race, class, wealth, behavior and socialization. Falls. (LITY)(SSDI)

**END1500 The Contemporary American Male: His Issues, His Desires 3 credits**  
Examines what it means to be “an American male” and how masculinity has been and is constructed by our culture. Analyzes, through examples taken from a range of written and visual texts, the contemporary American male as he seeks to understand and to place himself within a dynamically evolving society, one, it seems, that is inducing, at increasing rates, suicide, homicide, substance abuse, sports injuries, work-related stress, heart attacks and failure at relationships. Explores diverse expressions of masculinity across the lifespan of the individual and in terms of race, class, wealth and sexual orientation. Springs. (SSDI)

**END1510 Living with the Humanities 3 credits**  
How does the individual achieve happiness, and what kinds of experiences through the humanities do previous and present societies provide the individual to validate his/her life? Explores such issues as happiness, morality, freedom and spirituality through the various perspectives of myth, history, philosophy, visual art, literature, theater, music and dance, architecture, sculpture and film. Examines the ways artists of many types both express their own individual perspectives, while at the same time working in the contexts of the societies in which they live. This interdisciplinary approach enables students to explore the inter-relatedness of the humanities, and

also the various ways issues addressed by the humanities can be discussed and resolved on both an individual and a social basis. Falls. (LITY)(SSDI)

**END1550 Wilderness Literature 3 credits**  
Students work to redefine the concepts of “wilderness” and to explore the relationship of the individual to the “wild.” Is “wilderness” always a geographic space, or can it also be psychological, social, or political? Is it always totally removed from society, or does it need society in order to exist? Texts may focus on classic nature writing, but other topics may include the wilds of human perception, pop culture chaos, adolescent angst, cultural identity and other vexed internal and external landscapes. Challenges preconceptions of what constitutes the “wilderness.” As students investigate the individual’s relationship to both society and seclusion, they consider how the “self” is produced and revised by its encounters with the wild. Springs. (LITY)(SSDI)

**END1600 Let’s Hear It For Sports—or Not! 3 credits**  
Are sports good for us? This course allows students the opportunity to examine, through various literary genres, the role of sports in their lives as well as the lives of others and to debate the merits and drawbacks of organized as well as individual sports in our lives and our society. Falls. (LITY)(SSDI)

**EN1750 Popular Fiction 3 credits**  
Introductory Course. Focuses on popular fiction such as science fiction, fantasy, westerns, mystery forms and romances. Spring of even years. (LITY)

**END1200 The Art of Film 3 credits**  
Studies film as a creative art—parallel to poetry or painting or music, analyzing the means by which good filmmakers move audiences to feel, to think, to experience certain aspects of life. Become familiar with film art; stress the humanistic qualities of the film experience and how it can connect to our own “real life” personal experiences. Falls. (CTDI)

**EN2250 Identity and Difference in American Literature 3 credits**  
Introductory Course. Close reading and analysis of significant American texts, authors’ genres and/or periods with a critical emphasis on relevant concepts such as ideology, canonicity, identity politics, difference, assimilation and cultural appropriation. Students explore how such categories as race, gender, ethnicity, social class, region, religion, nationality, sexual orientation and/or ability have been constructed and performed through literature. Course content varies depending on instructor. Springs. (DICO)



**END12320 Settling the American West:****Women and Men on the  
Overland Trail 3 credits**

An examination, through readings in fiction, nonfiction and poetry and through film, of the diverse roles and experiences of women and men who traveled the overland trails and settled in the frontier lands of the American West. Students study the impact of this migration on the indigenous peoples of the west and learn to connect this time period and experience with their own family histories and origins. Springs. (LITY) (PPDI)

**EN2350 Decades in Literature 3 credits**

Introductory course. History and social contexts often have important impacts on literature and art in a particular period, but it is often only after the fact that we see how literature can be defined by an age. Provides an in-depth study of one decade in literature. Depending on the instructor and the section, students may study the murder, jazz and mayhem of the Roaring '20s in America or the money-obsessed post-imperial culture of the Big '80s in England. Through an analysis of history, politics, art and music along with the literature of the period, students gain a better understanding of the ways culture does (or does not) influence art. May be taken a second time with a different decade. Fall of odd years.

**EN2410 Shakespeare's (St)age 3 credits**

Introductory course. How did Shakespeare and his contemporaries craft, advertise, and perform their plays? How did Queen Elizabeth, Puritans, and finances affect drama? Studies select plays and sonnets by William Shakespeare and his contemporaries as well as modern adaptations of these works. Falls.

**EN2450 Prize Winners 3 credits**

Introductory course. What is a classic? Some great thinkers think the answer depends on longevity. For instance, 18th century British poet Alexander Pope wrote: "who lasts a century can have no flaw/I hold that Wit a Classic, good in law." But how do we decide what makes a 'classic' within the last century? What criteria are used to define 'greatness'? And who makes these decisions? Explores the advent of artistic prizes and their role in canon making in the 20th and 21st centuries. Focuses on prizes such as the Nobel Prize, the Pulitzer Prize, the National Book Award, the O'Henry Prize, the Pushcart Prize, the Tony Awards, the Academy Awards, the Booker Prize, etc., or the works of one prize winner to explore questions of canonicity, aesthetics, authority and the politics and culture of 'prize-worthiness.' Fall of even years.

**EN2500 Studies in English 3 credits**

Required of all English majors. Acquaints students with fundamental concepts such as

text, genre, author, period, nation/place and reader/critic as they apply to underlying philosophy and material practice in the five major options in English: Contract, Film, Literature, Teacher Certification and Writing. Falls and Springs. (WRCO)

**EN2560 Introduction to English  
Teaching 3 credits**

Provides broad exposure to the realities of English teaching in the secondary/middle school, theoretical orientations to English teaching, the school, the adolescent, the teacher and their relationship. Observation/participation in schools required. Springs.

**EN2610 Introduction to Film 3 credits**

Introductory Course. Focuses on significant films, some short, some full-length. Designed to develop greater understanding and appreciation of film as an art form. Spring of odd years. (ARTS)

**EN2700 Creative Writing 3 credits**

Critical analysis of creative efforts by both instructor and peers. Falls and Springs. *Prerequisite(s)*: EN 1200 and one literature course.

**EN3030 Practicum in  
Publication 3 credits**

Advanced Study in Writing. Practical application of the theories and techniques studied in Journalism and/or Creative Writing. Students work on campus-based publications such as *The Clock* and *Centripetal* at tasks ranging from writing and reporting to copy-editing and layout. May be repeated for up to six credits when students work in a different role or at a different publication. Pass/No Pass. Springs. *Prerequisite(s)*: (EN 2700 or EN 3670) and permission of the instructor.

**EN3090 Technical  
Communication 3 credits**

Advanced Study in Writing. Focuses on technical communication for business, science, social science, government and the professions. Topics include designing communication for specific audiences; writing proposals, reports and instructions; exploring the ways technology is used as both a medium and a subject of technical communication; exploring various forms and media of professional writing. Important for people interested in professional writing. Falls and Springs. *Prerequisite(s)*: EN 1200. (TECO)(WRCO)

**EN3100 Fiction Workshop 3 credits**

Advanced Study in Writing. Focuses on the process of imaginative writing. Instruction is guided by the students' individual interests, strengths and needs. While the principal, traditional forms of fictional narrative writing are explored, including the sketch, the short story, novella and novel, students are encouraged to discover and reflect their voice

in the form most suitable. Experimentation is encouraged in both conventional and divergent narrative modes. Springs. *Prerequisite(s)*: EN 2700.

**EN3120 Advanced Composition 3 credits**

Advanced Study in Writing. Focuses on the development of clarity, force and fluency, especially in the writing of expository, critical and argumentative prose. Falls and Springs. *Prerequisite(s)*: EN 1200.

**EN3130 Non-Fiction Workshop 3 credits**

Advanced Study in Writing. Focuses on the analysis and writing of nonfiction. Topics may vary from semester to semester. Falls. *Prerequisite(s)*: EN 1200.

**EN3140 Poetry Workshop 3 credits**

Advanced Study in Writing. Focuses on the analysis and writing of poetry. Falls. *Prerequisite(s)*: EN 2700.

**EN3260 Fiction into Film 3 credits**

Advanced Study in Literature and Film. Focuses on reading novels and short stories and viewing films made from them, focusing on the potentialities and limitations of each art form. Spring of even years.

**EN3270 Gothic Fiction 3 credits**

Advanced Study in Literature and Film. Focuses on Gothic Fiction from the 18th C. to the present. Emphasis on the techniques and themes used to evoke the realm of the irrational and the nightmarish terrors that lie beneath the orderly surface of the civilized mind. Fall of even years.

**EN3280 Drama into Film 3 credits**

Advanced Study in Literature and Film. Focuses on reading plays and viewing films made from them and on the potentialities and limitations of each art form. Spring of odd years.

**EN3290 Postcolonial Literature 3 credits**

Advanced Study in Literature and Film. Focuses on representative works by some of the major writers from modern postcolonial countries, including those located in Africa, India, South and Central America and the South Pacific. Fall of even years.

**EN3300 The Craft of Screenwriting:****Reading and Writing  
Screenplays 3 credits**

Advanced Study in Literature and Film. Advanced Study in Writing. Students read and analyze a number of critically acclaimed screenplays, watch the filmed versions of those screenplays and then begin writing their own, focusing primarily on a few specific types of scenes. The second half of the class will essentially be run as a workshop, with student scenes being read and cri-



tiqued by class members. Fall of even years.  
*Prerequisite(s)*: EN 2610.

**EN3350 Lost Generation[s]: Voices of American Counterculture Movements 3 credits**

Advanced Study in Literature and Film. Explores the voices of four major waves of lost generation writers: those of the original Lost Generation of the 1920s; those of the Beat Generation of the 1950s; those of the Hippie/Woodstock generation of the 1960's; and those of the (Punk Rock) "Blank Generation" of the late 1970s–early 1980s. Attempts to uncover thematic similarities among the works. Explores the styles and tones of the writers and artists involved. Ends by seeking out our newest potential voices of further "lost generations." Fall of odd years. *Prerequisite(s)*: junior status. (INCO)

**EN3450 Women Writers 3 credits**  
Advanced Study in Literature and Film. Focuses on writing by women. Authors vary for each offering. Spring of odd years.

**EN3500 Currents in Global Literature 3 credits**  
Focuses on global literature. Centers on a particular theme of the instructor's choosing and investigates how this theme interacts with the historical events and literary trends. Springs.

**EN3560 Genre 3 credits**  
Advanced Study in Literature and Film. Focuses on one of the major literary genres (drama, poetry, the novel, the short story and the essay), offered on a rotating basis. Repeatable with different genre. Fall of odd years.

**EN3590 The Filmmaker's Vision: An Introduction to Film Analysis 3 credits**  
Advanced Study in Literature and Film. Studies film as an art—parallel to poetry or painting or music. Analyzes the means by which good filmmakers move audiences to feel, to think, to experience certain aspects of life and becomes familiar with film art (particularly the roles played in that art by the director, the editor and the cinematographer). Stresses the humanistic qualities of the film experience and how it can connect to our own "real life" personal experiences. Spring of even years. *Prerequisite(s)*: EN 2610.

**EN3610 Currents in British Literature I 3 credits**  
Focuses on early British literature to 1789. Centers on a particular theme of the instructor's choosing and investigates how this theme interacts with the historical events and literary trends of the period. Falls.

**EN3620 Currents in British Literature II 3 credits**  
Focuses on British literature from 1789 through the mid-20th century. Centers on a particular theme of the instructor's choosing and investigates how this theme interacts with the historical events and literary trends of the period. Springs.

**EN3670 Journalism 3 credits**  
Advanced Study in Writing. Focuses on the skills, principles and challenges associated with print and online journalism. Introduces students to journalistic ethics, basic newspaper style for news and feature writing, interviewing and research techniques and copy editing conventions. Important for people interested in professional writing. Falls and Springs. *Prerequisite(s)*: EN 1200 or equivalent. (TECO)(WRCO)

**EN3680 Scriptwriting 3 credits**  
Advanced Study in Literature and Film. Advanced Study in Writing. Focuses on analysis and writing of dramatic scripts; primarily of theatrical plays, but also with brief coverage of radio plays and screen plays. Springs. *Prerequisite(s)*: EN 1200 and a literature course.

**EN3690 Critical Theory 3 credits**  
In Studies in English students explored basic questions about texts, genre, authorship and the role of the reader in literary analysis. Critical Theory seeks to build on that general introduction and to acquaint students with specific modern and contemporary schools of literary theory including: Formalism, Reader Response, Psychoanalysis, Structuralism, Semiotics, Marxism, Poststructuralism, Feminism, Queer Theory, Postcolonial Theory and New Historicism. More importantly, students begin to develop their own theoretical approach, informed by what they learn from reading important literary theorists. Falls and Springs. *Prerequisite(s)*: EN 2500.

**EN3710 Currents in American Literature I 3 credits**  
Focuses on North American literature from the period of early exploration and colonization through the Civil War, roughly 1600 through 1865. Centers on a particular theme of the instructor's choosing and investigates how this theme interacts with the historical events and literary trends of the period. Falls. (DICO)

**EN3720 Currents in American Literature II 3 credits**  
Focuses on North American literature from the period of the ending of the Civil War through the present day, roughly 1865 through the present. Centers on a particular theme of the instructor's choosing and investigates how this theme interacts with the his-

torical events and literary trends of the period. Springs. (DICO)

**EN3750 Topics in Literature and Film 3 credits**  
Advanced Study in Literature and Film. Considers topics not covered in other literature courses. May be repeated with different topic. Offered occasionally.

**EN3760 Topics in Writing 3 credits**  
Advanced Study in Writing. Topics not covered in detail in other writing courses, such as flash fiction, writing about the outdoors and science writing. May be repeated for credit with a different topic. Spring of odd years.

**EN4020 Chaucer: The Canterbury Tales 3 credits**  
Advanced Study in Literature and Film. Focuses on Geoffrey Chaucer's tales in Middle English, against their 14th century background. Spring of odd years.

**EN4030 Advanced Poetry Workshop 3 credits**  
Advanced Study in Writing. A final in-depth course in a Writing Option student's program, designed to improve students' creative and critical faculties through the writing and intensive critiquing of original poetry. Spring of even years. *Prerequisite(s)*: EN 3140.

**EN4090 Advanced Technical Communication 3 credits**  
Advanced Study in Writing. Students apply the theories and techniques learned in Technical Communication to complete a collaborative project for a real-world client. Themes vary from year to year but may focus on online Help, multimedia instructional design, in-depth analyses or grant proposals. Recommended for those interested in professional writing careers. Offered occasionally. *Prerequisite(s)*: EN 3090 and permission of the instructor.

**EN4130 Advanced Prose Workshop 3 credits**  
Advanced Study in Writing. A final, in-depth course in a Writing Option student's program, designed to improve students' creative and critical faculties through the writing and intensive critiquing of original prose fiction and/or nonfiction. Fall of even years. *Prerequisite(s)*: EN 3100 or EN 3130.

**EN4310 Teaching Writing in the Secondary School 3 credits**  
Instructional methods and materials used in process and workshop based writing, communication and language at the secondary level. Observation and participation in public secondary schools required. Springs. *Prerequisite(s)*: EN 2560, junior status, and acceptance into Teacher Certification Candidacy.

**EN4320 English Student Teaching Seminar 1 credit**

Accompanies English Student Teaching in grades 5-12 and focuses on theory in practice. Establishes a professional learning community for reflection, dialogue and inquiry. Assists pre-service teachers in their transition into the profession. Falls and Springs. *Corequisite(s)*: EN 4420 or EN 4430.

**EN4420 English Student Teaching 5-12 11-12 credits**

Capstone experience for English Teacher Certification majors, leading to teacher certification. It is a continuous full-time (five days per week) experience during which students gradually assume full responsibility for teaching a full schedule of classes at the middle and/or high school levels in English/Language Arts. Student teaching is conducted in local schools under the supervision of a cooperating teacher and English Department faculty. Letter graded for students following pre-2008-09 Catalogs. Falls and Springs. *Prerequisite(s)*: minimum grade of C in EN 4310 and EN 4550; minimum 2.70 cumulative GPA; completion of all other program requirements for certification; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: EN 4320.

**EN4430 English Student Teaching 5-12 11-12 credits**

Capstone experience for English Teacher Certification majors, leading to teacher certification. It is a continuous full-time (five days per week) experience during which students gradually assume full responsibility for teaching a full schedule of classes at the middle and/or high school levels in English/Language Arts. Student teaching is conducted in local schools under the supervision of a cooperating teacher and English Department faculty. Pass/No Pass for students following the 2008-09 and subsequent Catalogs. Falls and Springs. *Prerequisite(s)*: minimum grade of C in EN 4310 and EN 4550; minimum 2.70 cumulative GPA; completion of all other program requirements for certification; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: EN 4320.

**EN4550 Teaching Literature in the Secondary School 3 credits**

Instructional methods and materials used in teaching literature and reading at the secondary level. Introduction to adolescent literature and classroom-based research. Observation and participation in public secondary schools required. Falls. *Prerequisite(s)*: EN 2560, junior status, and acceptance into Teacher Certification Candidacy.

**EN4600 Travels 3 credits**

Advanced Study in Literature and Film. Intensive study of travelers' tales which blend

descriptive journalism, history, cultural criticism, autobiography/memoir, social observation and meditative or philosophical reflection into narratives driven by the need to understand and recapture the remembered experience and meaning of the journey. Students examine questions of individual and cultural identity, self and society, issues of powers and symbolic action, the interrelationships of art and place, of the past and the present and of the present upon the past; the problems of reliable observers, the reliability of narrative, the role of transforming movement through place and of social estrangement in the struggle for social order and human creativity. Not open to students who earned credit for Travel Literature. Falls. *Prerequisite(s)*: junior status. (INTG)(INCO)

**EN4800 Single Author 3 credits**

Advanced Study in Literature and Film. Focuses on a single author and his/her works with emphasis on the author's development, style and reputation. Repeatable with different author. Offered occasionally.

**EN4910 Independent Study 1-3 credits**

Students, working with a faculty advisor, select a topic for study and research the topic in depth. Consent required of the instructor who will supervise the independent study and the Department Chair.

**EN4950 Writing Internship 3 credits**

Advanced Study in Writing. Offers a culminating experience for English majors and minors in their senior year. Students work in professional writing or editing under the supervision of the Director of Practica/Internships. Individual enrollment. Pass/No Pass credit. *Prerequisite(s)*: permission of the Director of Practica/Internships and two or more of the following: EN 2750, EN 3030, EN 3090, EN 3120, EN 3130, EN 3630, EN 3670.

## **EPL—Environmental Planning**

**EPL2100 Community Planning 3 credits**

A survey of the philosophy, principles and processes of regional and community planning. Emphasis is on analysis of planning problems related to the natural and human-made environments at the national, state and local levels. Not open to students who have earned credit for GE 3110. Falls.

**EPL3100 Environmental Planning 3 credits**

Designed to promote the understanding and appropriate use of the natural environment. Students learn to utilize the tools and methodologies that can be used in a community to plan for the future while respecting the living landscape. Not open to students who have earned credit for GE 4401. Spring of odd years. *Prerequisite(s)*: EPL 2100.

**EPL3960 Internship 3-6 credits**

Students engage in an individualized work program at an agency that emphasizes some aspect of environmental planning. Minimum time required is 10 hours/week for one semester. Course may be repeated for a total of six credits. With permission. Falls and Springs. *Prerequisite(s)*: approval of the discipline's Internship Program Coordinator.

**EPL4150 Topics in Environmental Planning 3 credits**

Specialized topics in environmental planning that are not normally covered in depth in other environmental planning courses. May be repeated with a different topic for a total of six credits.

**EPL4910 Independent Study 1-3 credits**

Students gain a background in issues in environmental planning through reading and research, supplementing previous coursework in the field. A research paper, periodic conferences and an oral examination may be required. May be repeated for a total of six credits. Consent required of the instructor who will supervise the independent study and the Department Chair.

**EPL4990 Advanced Planning 3 credits**

Students are actively involved in projects designed by professional planners and community officials, applying concepts and techniques from several other course requirements from the Environmental Planning program. Not open to students who have earned credit for GE 4990. Spring of even years. *Prerequisite(s)*: permission of the instructor.

## **ER—Early Childhood Studies**

**ER2000 Introduction to the Early Childhood Profession 3 credits**

Acquaints students with the early childhood field and the roles and responsibilities of early childhood professionals in optimizing the development of diverse young children birth through eight years of age. Explores career options in a broad range of settings. Examines ethical guidelines and core beliefs associated with early childhood education and care. Emphasis placed upon students identifying with and conducting themselves as members of the early childhood profession. Falls and Springs. (WRCO)

**ER2200 The Constructivist Approach in Early Care and Education 3 credits**

Introduces the constructivist approach to teaching and learning in early care and education programs from infancy through the primary grades. Reviews the theoretical bases of constructivism and explores its applications in curriculum, instruction, and guidance and discipline. Emphasis on supporting all children as they construct knowledge from

experiences with materials and interactions with others, and how this knowledge is influenced by the classroom and cultural context. Requires eight to 10 hours of observation/participation in an approved early childhood setting. Falls and Springs. *Prerequisite(s)*: ER 2300.

**ER2300 Young Children's Learning and Development in Context 3 credits**

Examines the characteristics and needs of young children from birth to eight and the multiple interacting influences on their development and learning. Explores the interrelated domains of children's development—physical, cognitive, social, emotional, linguistic and aesthetic and how children learn. Reviews the child development knowledge base, research and theoretical perspectives. Focuses on the development of observational skills and strategies that inform teaching. Emphasizes the many influences on children's development and learning and how developmental knowledge is used to create learning environments that are healthy, respectful, supportive and challenging for all children. Requires 10 observation/participation hours in an approved early childhood setting. Falls and Springs.

**ER2800 Preschool and Kindergarten Curriculum and Instruction 6 credits**

Examines teaching strategies and curricular approaches for preschool and kindergarten children. Focuses on designing, implementing and evaluating constructivist learning experiences and on creating learning environments that are supportive and respectful of all children. Emphasis on incorporating appropriate and meaningful content from various disciplines. Requires practicum of eight to 10 hours per week at the PSU Child Development and Family Center. Falls and Springs. *Prerequisite(s)*: ER 2200 and RL 2500.

**ER3200 Assessment in Early Childhood 3 credits**

Examines a variety of assessment strategies and their uses in supporting learning and informing practice and decision-making. Emphasis on assessments that are responsible, ethical and appropriate for diverse children. Examines how quantitative data are used to inform early childhood practice. Promotes the importance of establishing assessment partnerships with families and other professionals. Requires three to six hours of field experience in early childhood settings. Falls and Springs. *Prerequisite(s)*: ER 2200. (QRCO)

**ER3300 Culturally Responsive Early Care and Education 3 credits**

Examines the influence of culture on child-rearing, teaching and learning and explores the dynamics of privilege and power. Prepares early childhood professionals to be culturally responsive caregivers and educators who set high expectations for all children and work effectively with families and within the community. Focuses in particular on supporting racially, ethnically and/or linguistically diverse children. Emphasizes the responsibilities of early childhood professionals to recognize, confront and change racism and other biases in themselves, early childhood settings and other social institutions. Falls and Springs. *Prerequisite(s)*: ER 2000. (DICO)(WRCO)

**ER3400 The Project Approach 6 credits**

Examines the underlying principles of the Project Approach to early childhood curriculum development. Engages students in designing, implementing, documenting and evaluating projects with preschool and kindergarten children and families. Requires practicum of eight hours per week at the PSU Child Development and Family Center. Falls and Springs. *Prerequisite(s)*: ER 2800.

**ER3550 Early Childhood Practicum 3 credits**

Provides an opportunity for an intensive, field-based experience in an approved setting for early childhood majors, with mentoring and supervision from an early childhood professional. Emphasis on applying acquired knowledge and skills, fulfilling professional responsibilities and demonstrating ethical and professional behavior. Practicum of 6-8 hours per week in an approved setting with scheduled on-campus meetings with faculty supervisor. May be repeated for credit once in a different approved setting. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

**ER3700 Teaching and Learning in the Primary Grades 3 credits**

Focuses on the teacher's roles and responsibilities in promoting children's development and learning in grades one through three. Examines the fundamental aims of primary grade education and ways of achieving these aims by establishing appropriate and challenging learning environments, building respectful and supportive relationships with children and families, and utilizing a repertoire of strategies to support and assess all children's learning. Introduces the content, approaches, and skills associated with various academic disciplines. Requires two hours of practicum per week in a first, second, or third grade classroom. Falls and Springs. *Prerequisite(s)*: ER 2200.

**ER3800 Technology and Problem Solving Across the Primary Grade Curriculum 3 credits**

Focuses on the integration of technology and problem-solving in curriculum for kindergarten through grade three. Examines developmental and constructivist theories as they apply to problem solving and technology. Emphasis placed on the role of communication and the acquisition of strategies with regard to problem solving. Explores the use of manipulative materials and tools in shaping mathematical reasoning. Investigates the role of technology in the primary classroom with regard to student use, teacher productivity and communication with families, and examines ways in which technology supports differentiated instruction. Considers social and ethical implications of technology use with primary grade children. Falls and Springs. *Prerequisite(s)*: MA 2110, MA 3010 and acceptance into Teacher Certification Candidacy. (TECO)

**ER3900 Inquiry and Integration in the Primary Grades 3 credits**

Builds on concepts addressed in ER 3700, with an emphasis on the design and implementation of integrated curriculum. Focuses on science and social studies concepts and skills. Explores how both disciplines can serve as a basis for in-depth investigation and integrated study, emphasizing inquiry as a means of constructing knowledge and promoting active investigation. Utilizes the "backwards design" process of creating integrated units. Requires a practicum of two hours per week in a first, second or third grade classroom. Falls and Springs. *Prerequisite(s)*: ER 3700. *Corequisite(s)*: ERSE 3500.

**ER4200 Senior Seminar: Perspectives on Early Childhood 3 credits**

Focuses on the ideas, individuals and events that have shaped the field of early childhood. Examines the philosophical, historical, cultural and political influences on the development of early care and education programs and the early childhood profession in the United States. Investigates the origins of contemporary issues impacting young children, families and early childhood professionals, including poverty, government support for early care and education, children's health and safety, trends in curriculum and teaching and the status of the early childhood profession. Falls and Springs. *Prerequisite(s)*: permission of the instructor and (junior or senior status). (INCO)

**ER4300 Leadership, Advocacy, and Policy in Early Childhood 3 credits**

Focuses on the development of the skills and qualities needed to be an effective leader in the early childhood profession. Emphasizes collaboration, communication, critical perspec-

tive-taking and the importance of informed advocacy and how technology serves as a tool for leaders and advocates. Examines the ways in which leaders and advocates can influence the development of public and private-sector policies affecting children, families and the early childhood profession. Springs. *Prerequisite(s)*: permission of the instructor. (TECO)

**ER4400 K-3 Student Teaching in an Inclusive Classroom 12 credits**

The culminating field-experience leading to early childhood teacher certification N-3, this full-time (five days per week) clinical experience requires candidates to teach in an inclusive kindergarten, first, second or third grade classroom in a public school setting. With mentoring and supervision from a cooperating teacher and university supervisor, candidates are expected to function in a professional capacity by gradually assuming a full range of teaching responsibilities. Additionally, they are to demonstrate competencies (i.e., knowledge, skills and dispositions) learned and developed throughout their program of study. Student teachers are placed in a school setting with diverse learners. They should be prepared to live near or drive to these settings during their student teaching semester. Letter graded for students following pre-2008-09 Catalogs. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of all program requirements for certification at the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ER 4500.

**ER4410 K-3 Student Teaching in an Inclusive Classroom 12 credits**

The culminating field-experience leading to early childhood teacher certification N-3, this full-time (five days per week) clinical experience requires candidates to teach in an inclusive kindergarten, first, second or third grade classroom in a public school setting. With mentoring and supervision from a cooperating teacher and university supervisor, candidates are expected to function in a professional capacity by gradually assuming a full range of teaching responsibilities. Additionally, they are to demonstrate competencies (i.e., knowledge, skills and dispositions) learned and developed throughout their program of study. Student teachers are placed in a school setting with diverse learners. They should be prepared to live near or drive to these settings during their student teaching semester. Pass/No Pass for students following 2008-09 and subsequent Catalogs. Falls and Springs. *Prerequisite(s)*: minimum 2.70 cumulative GPA; completion of all program requirements for certification at the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: ER 4500.

**ER4500 K-3 Student Teaching Seminar 3 credits**

Focuses on methods of inquiry that provide a variety of self-assessment and problem solving strategies for reflecting on practice. Promotes collaborative learning to support teaching and learning in the primary grades. Establishes a professional learning community for engaging in reflection, dialogue and inquiry. Assists pre-service teachers in preparing for their transition into the profession. Falls and Springs. *Corequisite(s)*: ER 4400 or ER 4410.

**ER4600 Special Topics in Early Childhood 3 credits**

Provides opportunities for upper-level Early Childhood majors to explore topics not covered in depth in other early childhood classes. Topics vary by semester and instructor. May be repeated for credit once with a different topic. Springs. *Prerequisite(s)*: Early Childhood Studies majors.

**ERSE—Early Childhood Special Education**

**ERSE2500 Supporting Young Children with Exceptional Learning Needs 3 credits**

Introduces the models, theories and philosophies that form the basis for special education practice and the special education laws and policies that affect young children, families and programs for children from birth through age eight. Emphasizes the rights and responsibilities of caregivers, teachers, young children, their parents and other professionals related to exceptional learning needs. Explores trends and issues in definition and identification of children with exceptional learning needs, including those from culturally and linguistically diverse backgrounds, as well as issues related to assessment, eligibility and placement within a continuum of services. Falls and Springs. *Prerequisite(s)*: ER 2000 and ER 2300.

**ERSE3500 Special Education in the Primary Grades 3 credits**

Explores the relationship of special education services to the organization and function of educational agencies, elementary schools and how this relationship is constructed. Examines the knowledge and skills early childhood educators need to establish collaborative, reflective relationships with children, families and specialists, as well as the roles and responsibilities of each person supporting children's learning needs. Emphasizes ways to create learning environments that are respectful and supportive of all children, ages five through eight, and prepares students to select, adapt and use instructional strategies and materials that support young children with disabilities. Requires two hours of practicum per week in a first, second or third grade

classroom. Falls and Springs. *Prerequisite(s)*: ERSE 2500.

**ERSE3600 Infant and Toddler Care and Education 4 credits**

Focuses on providing individually and developmentally appropriate, responsive care for children from birth to age three in group care settings. Emphasis on creating and advocating for healthy, supportive, respectful and challenging learning environments for all infants and toddlers. Examines the cultural contexts of child-rearing practices and prepares students to work closely with families in promoting the development of all infants and toddlers. Requires practicum of two to three hours per week in an approved infant/toddler setting. Springs.

**ES—Earth Science**

**ES2100 Physical Geology 3 credits**

Fundamental principles of earth science. Minerals, the rock cycle, structure of the earth's crust, plate tectonics, origin of mountains, earthquakes, volcanism and the work of rivers and glaciers. Falls. *Corequisite(s)*: ES 2110. (SCIE)

**ES2110 Physical Geology Laboratory 1 credit**

Field and laboratory studies to accompany Physical Geology. Rock and mineral identification plus field trips to local geological features. Pass/No Pass. Falls. *Corequisite(s)*: ES 2100. (SLAB)

**ESDI2120 Historical Geology 3 credits**

The history and development of the physical features of the earth and the development of life on the earth. The methods used and the fossil organisms studied by historical geologists are examined in the laboratory and on field trips. Springs. *Corequisite(s)*: ESDI 2130. (SCIE)(SIDI)

**ESDI2130 Historical Geology Laboratory 1 credit**

Field and laboratory studies to accompany Historical Geology. Consists of labs dealing with the interpretation of geologic maps, examination of fossil plants and animals, interpretation of past organic communities and field trips to local geologic features. Pass/No Pass. Springs. *Corequisite(s)*: ESDI 2120. (SLAB)(SIDI)

**ESDI2140 Introduction to Oceanography 3 credits**

A survey of geological, physical and chemical processes concerning the world's oceans. These disciplines are related to biological activities in order to develop an environmental awareness for the oceans. The integrated nature of ocean studies through these sciences is a major theme and is applied to current global issues and human impacts on the



oceans. Springs. *Corequisite(s)*: ESDI 2150. (SCIE)(SIDI)

### **ESDI2150 Oceanography**

#### **Laboratory**

**1 credit**

Supplements ES 2140 by concentrating on what oceanographers do and measure through experimentation and demonstrations. The geological, physical and chemical aspects are studied to provide a way of thinking about the dynamic processes of the oceans. Field trips and a boat trip are included. Springs. *Corequisite(s)*: ESDI 2140. (SLAB)(SIDI)

### **ESDI2600 Earth Systems Science:**

#### **Managing the Earth's Resources**

**4 credits**

Helps students use knowledge of the Earth and its systems to improve their personal life and the quality of life of humans everywhere. Focuses on the foundations of Earth systems science and Earth processes by examining the planet's resources and pollution of earth systems. Springs. (SCLB)(SIDI)

### **ESDI2610 Earth Systems Science:**

#### **The Hazardous Earth**

**4 credits**

Helps students use knowledge of the Earth and its systems to improve their personal life and the quality of life of humans everywhere. Focuses on the foundations of Earth systems science and Earth processes by studying natural hazards, i.e., earthquakes, volcanoes, rivers and flooding, etc. Falls. (SCLB)(SIDI)

## **ESP—Environmental Science and Policy**

### **ESP2100 Introduction to Environmental Science and Policy**

**4 credits**

Engages in a scientific approach to the physical, ecological, social, and political principles of environmental science; uses the scientific method to analyze and understand the relation between humans and the natural environment. Focuses on how ecological realities and human desires to increase their material standard of living often clash, leading to environmental degradation. Provides an analytical framework and a set of concepts that can be used to analyze environmental issues, to guide one's life, and to clarify our responsibility to future generations; accomplished through lectures and exams, discussions, and laboratory experiences that include field trips and original data collection. Teaching environmental activism is not the purpose of the course. Laboratory/field studies. Not open to students who have earned credit for ESP 2000. Falls. *Prerequisite(s)*: Environmental Science and Policy majors.

### **ESP3300 Soils and Environmental Change**

**4 credits**

Introduces soil science to environmental science, geology, geography, and biology majors

and minors. Its multidisciplinary coverage teaches the relevance of soil studies across a broad spectrum of modern issues. Students learn the geologic, geographic, and climatologic aspects of soil formation, the structural components of soil that impact diverse aspects of soil fertility, drought, and tendency to landslide or erode, the dynamical aspects of soil hydrology and geochemistry, and the biological aspects of soil nutrient available, nitrification, carbon cycling, and biodiversity. Laboratory and field exercises. Additional course fee required. Falls beginning 2010. *Prerequisite(s)*: CH 2130 and CH 2140.

### **ESP3500 Geo-cultural Education on the Colorado Plateau**

**3 credits**

Students join a PSU science education faculty member and Four Corners Outdoor School staff during spring break in March to learn about bio, geo-regional outdoor education on the Colorado Plateau, originally funded by the National Science Foundation. Spend three days rafting on the San Juan River in southeastern Utah, learning the concepts behind, skills needed and techniques to train teachers and students in bio, geo-regional outdoor education. Explore the middle section of the San Juan River, from Bluff to Mexican Hat, which has unique geologic formations and a rich cultural history with Ancestral Puebloan ruins and rock art. The next three days students are assigned to intern with one of the Regional Coordinators for the Bioregional Outdoor Education Program (BOEP) in Utah, Colorado, New Mexico or Arizona. Students visit diverse, cross-cultural elementary schools (with Hopi, Navajo, Ute, Mormon and/or Spanish students) to observe and assist with implementing the BOEP project. The final day and a half is spent visiting regional southwest National Parks focusing on unique geological and management issues. PSU students peer teach and assist in classrooms on implementing bio-regional outdoor education curricular initiatives. PSU students also publish reflections, following a structured rubric, about their experiences on a travel blog site created for the course at <http://fourcorners.blogs.plymouth.edu>. Additional costs for travel, lodging, meals, fees, and supplies. Springs. (DICO)

### **ESP4100 Applied Hydrogeology**

**3 credits**

Provides comprehensive coverage of groundwater hydrology and the role of water in geologic processes from theory (i.e., principles of governing the flow of groundwater) to practice with application to issues of groundwater supply, contamination, and resource management. Practical experience is gained through the use of real data sets and by the investigation of real-world problems. Springs. *Prerequisite(s)*: Environmental Science and Policy majors.

### **ESP4530 Environmental Science and Policy Seminar**

**4 credits**

A central theme in the Environmental Science and Policy program is the need to use interdisciplinary approaches to effectively address environmental issues. The Seminar is the culmination of the course work in the program, and engages students in experiential learning about the challenges of working in interdisciplinary teams and perspectives. Provides students with opportunities to research significant issues of local or regional scale using multiple perspectives in a collaborative. Each spring one or more research teams are formed to conduct a project often developed in cooperation with an NGO or government agency to meet the needs of that organization and/or a community in the region. The projects are not theoretical or broad in scope, but rather focused on the kinds of problems that graduates might expect to face. Springs, beginning 2011. *Prerequisite(s)*: senior level Environmental Science and Policy majors.

### **ESP4600 Environmental Science and Policy Internship**

**4–12 credits**

Under the supervision of a faculty sponsor, Department Chair and supervising agency representative, students engage in a work program to apply, in a practical manner, knowledge gained in major and minor coursework. The internship addresses a department goal of being involved in a community-based or service learning project through a state, federal or local environmental organization. Students must obtain a faculty sponsor and submit a detailed written proposal prior to undertaking the internship. Students must also submit a written report to their faculty sponsor when the internship is complete. Final approval of the internship comes from the Department Chair. *Prerequisite(s)*: Environmental Science and Policy major and permission of the Department Chair.

### **ESP4710 Science Colloquium Series**

**1 credit**

The Boyd Science Colloquium Series is the department seminar intended to focus on the analysis of contemporary issues in environmental science and policy. Specific topics vary from year to year and are tailored to the interests of the students enrolled and the faculty. Creates a foundation of knowledge and methods for studying environmental issues. Helps students identify research interests as well as be exposed to new ideas through interaction with others. May be repeated with a different topic for a maximum of four credits. Falls and Springs. *Prerequisite(s)*: Environmental Science and Policy majors or permission of the Department Chair.

### **ESP4910 Independent Study**

**1–4 credits**

Offers students the opportunity to gain an in-depth understanding of an environmental science or policy topic that is not covered



extensively in other courses. Working with guidance from a faculty member with relevant expertise, students select a specialized topic in environmental science and/or policy for exploration and prepare an in-depth research paper or project pertaining to that topic. Scheduled conferences with the faculty members are required and a possible presentation to a class or seminar group is suggested. Permission of the student's advisor, the supervising faculty member and the Department Chair is required.

## FR—French

The Global Perspective (1986–2005 General Education requirement) is satisfied *either* by completing one of the following sequences:

FR 1010 and FR 1020

FR 1020 and FR 2010

FR 1110 and FR 1120

FR 2010 and FR 2020

or by completing a departmental proficiency test and one semester at the Intermediate II level (FR 2020).

### FR1010 Fundamentals of French I 4 credits

Open to students with no more than one year of high school French, or with no previous study of French. Closed to students with any college-level study of French. An introductory course with three regular class meetings per week with the instructor and a lab session with a supplementary instructor on intervening days. Emphasis on oral communication skills. Language in a cultural setting is emphasized. Conducted in French. Falls. *Corequisite(s)*: FR 1900. (DICO)(GACO)

### FR1020 Fundamentals of French II 4 credits

Continuation of FR 1010 with increased attention to reading and writing. Conducted in French. Springs. *Prerequisite(s)*: FR 1010 or equivalent. *Corequisite(s)*: FR 1905. (DICO)(GACO)

### FR1110 Continuing French I 4 credits

Open only to students with no more than two years of high school French. Closed to students with any college level study of French. An introductory course with three regular class meetings per week with the instructor and a lab session with a supplementary instructor on intervening days. Emphasis on oral and written communication skills and language in a cultural setting. Conducted in French. Falls. *Corequisite(s)*: FR 1910. (DICO)(GACO)

**FR1120 Continuing French II 4 credits**  
Continuation of FR 1110. Conducted in French. Springs. *Prerequisite(s)*: FR 1110 or equivalent. *Corequisite(s)*: FR 1915. (DICO)(GACO)

### FR1900 Fundamentals of French I—Lab 0 credit

Lab sessions in the Language Learning Resource Center (Hyde 221) with a supplementary instructor for review, practice, and completion of course assignments. Falls and Springs. *Corequisite(s)*: FR 1010.

### FR1905 Fundamentals of French II—Lab 0 credit

Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: FR 1020.

### FR1910 Continuing French I—Lab 0 credit

Lab sessions in the Language Learning Resource Center (Hyde 221) with a supplementary instructor for review, practice, and completion of course assignments. Falls and Springs. *Corequisite(s)*: FR 1110.

### FR1915 Continuing French II—Lab 0 credit

Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: FR 1120.

### FR2010 Intermediate French I 4 credits

Enhancement of French skills. Bridges the gap between the beginner and the student who is capable of functioning at the advanced level. Aims at improving all the skills of the language learner: listening, speaking, reading and writing. Conducted in French. Falls. *Prerequisite(s)*: no more than three years of high school French, or one year of university first-year French. (DICO)(GACO)

### FR2020 Intermediate French II 4 credits

Continuation of FR 2010. Conducted in French. Springs. *Prerequisite(s)*: FR 2010 or equivalent. (DICO)(GACO)

### FR3010 French History and Civilization 3 credits

France and French institutions through the ages. Daily life and the progress of arts and sciences as background and parallel to literary studies. Conducted in French. Unscheduled.

### FR3020 French Culture and Conversation 3 credits

French institutions and situations of today: read and talk about them. Emphasis on oral participation in class discussion. Conducted in French. Unscheduled.

### FR3030 Advanced French 3 credits

One-semester sequel to Intermediate French or for Advanced Placement of incoming students. Review and consolidation of all skills with attention to vocabulary expansion and the introduction of more sophisticated

grammatical constructions. Development of composition and communication skills and preparation for reading authentic texts of diverse types. Helps students compare and contrast the role of technology within their own culture and in various French-speaking cultures. Hands-on experience using current technologies to present and archive student work. Conducted in French. Falls. (GLOB)(GACO)(TECO)

### FR3060 French for Criminal Justice I 4 credits

For students who wish to enhance their French skills within the context of the criminal justice environment. Objectives include attaining advanced level oral proficiency by developing the student's ability to create with the language, to participate in conversations, to ask and answer questions by using specialized law enforcement vocabulary in French. Grammatical accuracy is sought through a selective review of basic constructions. Conducted in French. Fall of even years. *Prerequisite(s)*: minimum of four years of high school French or completion of college-level (2000 level) intermediate French. (DICO)(GACO)

### FR3070 French for Criminal Justice II 4 credits

A continuation of FR 3060. Spring of odd years. *Prerequisite(s)*: FR 3060. (DICO)(GACO)

### FR3100 Theme et Version (Translation Workshop) 3 credits

For students wishing to develop skills in foreign language-to-English translation, assuming basic reading and grammar knowledge. Problems of translation, practice with native script; attention to individual interests and major fields. Conducted in French. Unscheduled. (WRIT)

### FR3130 Advanced French Composition 3 credits

Attention to developing clarity, accuracy, and proficiency in written composition. From guided writing by models to free expression. Conducted in French. Springs. (WRIT)(WRCO)

### FR3150 French for Business 3 credits

Concentrates on spoken and written language typical of business functions. Practice in listening, reading and writing with basic cultural orientation. Appropriate reading and vocabulary for individual business interests are covered. Conducted in French. Unscheduled.

### FR3210 Readings in French I 3 credits

Extensive reading for comprehension of content and intensive reading for comprehension of structure. Variety of documents and fiction from various periods with emphasis on the contemporary. FR 3210, FR 3220 may

be taken in either sequence. Conducted in French. *Unscheduled.*

**FR3220 Readings in French II 3 credits**  
Extensive reading for comprehension of content and intensive reading for comprehension of structure. Variety of documents and fiction from various periods with emphasis on the contemporary. FR 3210, FR 3220 may be taken in either sequence. Conducted in French. *Unscheduled.*

**FR3410 Quebec Culture and Literature 3 credits**  
An introduction to Quebec literature and culture. Designed to increase student awareness and appreciation of Quebec's culture, history and literature. Original works of Quebec's leading novelists and dramatists are studied in correlation with the French Canadians' culture evolution. Conducted in French. *Unscheduled.*

**FR4100 Survey of French Literary Masterpieces I 3 credits**  
Offers a systematic survey of the main literary genres and individual writers in their social milieu from the Middle Ages through the 17th century. Conducted in French. FR 3030 and FR 3130 are especially urged as a thorough foundation to handle this specialized level. Fall of odd years.

**FR4110 Survey of French Literary Masterpieces II 3 credits**  
A continuation of FR 4100. Offers a systematic survey of the main literary genres and individual writers in their social milieu from the 18th century to the present. Conducted in French. Spring of even years. *Prerequisite(s):* FR 4100.

**FR4200 Seminar in French 3 credits**  
Open to especially able and interested students with initiative for independent study and seminar discussion. Complementing previous study, the approach is by writers studied in depth and by comparative literature techniques. Topics have included The Theater of Montherlant, Surrealism and French Literature, The Theater of Sartre, the Fictional Work of Camus, French Avantgarde Theater, Novels and Plays of Beckett, Ionesco's Theater. Conducted in French. *Unscheduled.*

**FR4910 Independent Study 1-3 credits**  
May be pursued after at least two French courses at the 3000 level. Emphasis may be on either literature or language. Consent required of the instructor who will supervise the independent study and the Department Chair.

## GE—Geography

**GED1200 Environmental Geography 3 credits**  
Examines the Earth as the home of humans. Develops a foundation by investigating Earth Systems and Cycles, such as the atmosphere, the lithosphere and the oceans. Looks at human interaction with and impact upon these systems. Students develop skills with the tools of geography in our analyses, such as map interpretation, geographic information systems and aerial image analysis. Falls and Springs. (SCIE)(SIDI)

**GED1300 Spatial Organization of Everyday Life 3 credits**  
Explores the world as observed from the perspective of a geographer. Geographers are concerned with both the human and natural characteristics of the earth's surface. Uses key geographic concepts and themes to examine how humans position themselves on the earth in response to the activities of other humans and in relation to the distribution of physical phenomena. Falls and Springs. (SSDI)

**GED1400 Globalization and Diversity 3 credits**  
Provides students an opportunity to investigate the changing world around them as it is molded by the conflicting trends of globalization and local diversity, identifying how these issues impact their own lives. Is the world today becoming "smaller" as regional boundaries become less important and communication across the world becomes easier? Or are the differences between cultures becoming more distinct separating people as members of historically isolated regions grasp to maintain cultural identity in the face of threatening uniformity? Applies the viewpoint of historical geography, utilizing related concepts of pattern and process to better identify historical trends which have molded each major world region. Emphasis is put on ways of thinking geographically and the analysis of regional patterns as a context for the characterization of the current major world regions and challenging their definition by considering the historical influences which have created them. Falls. (PPDI)

**GE2001 Physical Geography 3 credits**  
Develops a foundation for the understanding of the Earth's physical systems, including the atmosphere, lithosphere, hydrosphere and biosphere and the nature of processes that operate within and between these systems. Falls.

**GE2002 Human Geography 3 credits**  
Provides Geography and Environmental Planning majors an introduction to the field of human geography, with a particular focus on the various subfields and their relationship to the social sciences. A general introduction

to the field, open to any student. Reviews key concepts, viewpoints and methods of cultural geographers in examining how human activity is organized. Springs.

**GE2090 Computer Mapping 3 credits**  
The basic elements of Geographic Information Systems are discussed and illustrated with practical experience in a simple yet complete GIS. Students learn the principles of effective mapping and become familiar with the types of problems which GIS can solve. Falls. (TECH)(TECO)

**GE2730 Travel and Tourism 3 credits**  
Designed to provide an overview of the processes that shape global travel and tourism patterns and their consequences. Last offering Fall 2009. (SPSY)(GACO)

**GE3030 Urban Geography 3 credits**  
An examination of the evolution of the contemporary urban system, emphasizing the role of cities and metropolitan areas as concentrations of social and economic activity. Particular focus is given to patterns of land use, residential change, commercial activity, manufacturing and transportation. While the primary subject are the American city, comparisons to international urbanization is made. Springs.

**GE3260 The Physical Geography of National Parks 3 credits**  
A survey of the physical geography of the United States through a sample of our National Parks. These Parks have within them examples of many diverse landforms and demonstrate the tectonic and geomorphic processes responsible for the evolution of landforms throughout the United States. Using the example of the National Parks, examines the tectonics of the Eastern and Western United States, the effects of alpine and continental glaciation and periglacial processes, and the impact of fluvial processes within the context of landscape regions such as the Appalachians, the Great Plains, the Rocky Mountains, and the Sierra-Cascades system. Spring of even years. *Prerequisite(s):* GE 2001.

**GE3270 Introduction to Geographic Information Systems 3 credits**  
An introduction to the theoretical and applied aspects of Geographic Information Systems (GIS). Students learn about the design and implementation of GIS and gain some experience in the operation of a GIS and the application of GIS technology to real-world problems. Springs. *Prerequisite(s):* GE 2090.

**GE3300 Introduction to Hydrology 3 credits**  
Emphasizes the surface and subsurface distribution of water and considers topics such as the hydrologic cycle, precipitation, overland

flow, groundwater, soil moisture, evaporation and problems of contamination. Introduces the collection and analysis of hydrologic data. Fall of even years. *Prerequisite(s)*: GE 2001.

**GE3310 Landform Analysis 3 credits**  
Emphasizes the spatial distribution of geomorphological processes and resultant landforms in arid, glacial, periglacial, fluvial and shorezone environments. Introduces the utility of topographical maps, geological maps, aerial photographs and soil surveys in landscape assessment. Spring of odd years. *Prerequisite(s)*: GE 2001.

**GE3350 Introduction to Airphoto Interpretation and Remote Sensing 4 credits**  
An introduction to the principles and techniques of interpretation of aerial photographs, satellite images and other remotely sensed data. Students learn how to identify and measure objects, differentiate between cover types and employ aerial photos and satellite images as the basis for map-making. Fall of odd years. *Prerequisite(s)*: GE 2001 or (ES 2100 and ES 2110).

**GE3630 Historical Geography of Europe 3 credits**  
An introduction to the physical, and historical geography of Europe, emphasizing the historical development of the continent from the Paleolithic to the present. Special emphasis on the past and prospective future development of the European Union. Fall of odd years. (WRIT)(GACO)(WRCO)

**GE3640 The United States 3 credits**  
A study of the geographical and historical factors that combine to divide the United States into regions. Regional characteristics, personalities and biases are described and analyzed in order to understand the relationships between the physical and cultural environments. Unscheduled. (WRIT)

**GE3780 Nature and Heritage Tourism 3 credits**  
Expands awareness of how conservation and preservation practices have important consequences for the tourism industry as well as local communities and their hinterlands. Students read and discuss works of fiction, participate in fieldwork and design original solutions to problems posed by the instructor. Last offering Fall 2009.

**GE3960 Internship 3–6 credits**  
Students engage in an individualized work program at an agency that emphasizes some aspects of planning, tourism, GIS or other area related to their field(s) of study. Minimum time required is 10 hours/week for one semester. Course may be repeated for a total of six credits. *Prerequisite(s)*: approval

of the discipline's Internship Program Coordinator.

**GE4110 Topics in Regional Geography 3 credits**  
Introduces students to one of the many regions of the world outside the United States. Examples might include formal regions such as a continent or a large nation, a functional region such as the Mediterranean or East Asia, or cultural regions such as the Arab world or Latin America. The emphasis is on the geographic and cultural diversity of the region. Fall of even years and Spring of odd years. (GACO) (WRCO)

**GE4120 Topics in Human Geography 3 credits**  
Introduces students to one of the fields of Human Geography. Examples might include Cultural Geography, Social Geography, Economic Geography, Medical Geography, the Geography of Religion, or the Geography of Sport. Fall of odd years.

**GE4130 Topics in Physical Geography 3 credits**  
Introduces students to one of the fields of Physical Geography. Examples might include Glacial and Periglacial Geomorphology, Alpine Geomorphology, Climatology, Biogeography, Pedology, Plate Tectonics, Vulcanology, Weathering and Mass Wasting, or Coastal Geomorphology. Occasionally.

**GE4140 Topics in Geographic Techniques 3 credits**  
Introduces students to geographic techniques used in Geography and related fields such as Environmental Planning or the natural sciences. Examples might include topics in Advanced Geographic Information Systems, Geographic Information Sciences, Geomatics, Geodetics, Remote Sensing, Air Photo and Satellite Data, or Surveying. Fall 2012.

**GE4150 Topics in Geography 3 credits**  
A methodological study of the spatial aspect of such selected topics as the geography of sports, landforms education and map-making. Occasionally.

**GE4270 Advanced Geographic Information Systems 3 credits**  
Intensive coverage of important aspects of GIS use. Emphasizes the organizational and legal context of GIS use, professional issues, communication between different GIS software and project implementation and management. Fall of odd years. *Prerequisite(s)*: GE 2090 or GE 3270.

**GE4280 GIS Applications: Computer Mapping 3 credits**  
Examinations of methods used to create maps, charts and other graphics in geographic information systems. Topics include typography,

thematic mapping and three-dimensional mapping. Fall of even years. *Prerequisite(s)*: GE 2090 or GE 3270.

**GE4910 Independent Study 1–3 credits**  
Background in geography through reading and research, supplementing previous course work in the field. A research paper, periodic conferences and an oral examination may be required. Consent required of the instructor who will supervise the independent study and the Department Chair.

## GR—German

The Global Perspective (1986-2005 General Education requirement) is satisfied *either* by completing one of the following sequences: GR 1010 and GR 1020  
GR 1020 and GR 2010  
GR 2010 and GR 2020  
*or* by completing a departmental proficiency test and one semester at the Intermediate II level (GR 2020).

**GR1010 Fundamentals of German I 4 credits**  
Open to students with no more than two years of high school German, or with no previous study of German. Closed to students with any college-level study of German. An introductory course with regular class meetings per week and a review session by student assistants on intervening days. Emphasis on oral communication skills. Language in a cultural setting is emphasized. Conducted in German. Falls. *Corequisite(s)*: GR 1900. (GACO)

**GR1020 Fundamentals of German II 4 credits**  
Continuation of GR 1010 with increased attention to reading and writing. Language in a cultural setting is stressed. Conducted in German. Springs. *Prerequisite(s)*: GR 1010 or equivalent. *Corequisite(s)*: GR 1905. (GACO)

**GR1900 Fundamentals of German I—Lab 0 credit**  
Lab sessions in the Language Learning Resource Center (Hyde 221) with a supplementary instructor for review, practice, and completion of course assignments. Falls. *Corequisite(s)*: GR 1010.

**GR1905 Fundamentals of German II—Lab 0 credit**  
Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: GR 1020.

**GR2010 Intermediate German I 4 credits**  
Enhancement of German skills. For students with sufficient control of German fundamentals. Vocabulary building, oral and written grammar review, selected literary and

cultural readings. Conducted in German. Unscheduled. *Prerequisite(s)*: no more than three years of high school German, or one year of university first-year German. (GACO)

**GR2020 Intermediate German II 4 credits**

Continuation of GR 2010. Conducted in German. Unscheduled. *Prerequisite(s)*: GR 2010 or equivalent. (GACO)

**GR3010 Advanced German I 3 credits**

Sequel to second year university-level German, or for advanced placement of incoming students. Intensive reading and general introduction to German literature. Conducted in German. Unscheduled. *Prerequisite(s)*: advanced level of German.

**GR3020 Advanced German II 3 credits**

Continuation of GR 3010. Conducted in German. Unscheduled. *Prerequisite(s)*: advanced level of German.

**GR4910 Independent Study 1-3 credits**

May be pursued after at least two courses at the 3000 level. Emphasis may be in either literature or language. Consent required of the instructor who will supervise the independent study and the Department Chair.

## HE—Health Education

**HE1970 Introduction to Health Promotion 3 credits**

An introduction to health education and health promotion as a profession and a career. Included is an orientation to the BS in Health Education, the options, history of health education, wellness, health determinants and the process and practice of health education in various settings. Falls.

**HE2500 First Aid and CPR/AED 1.5 credits**

Combines community First Aid and CPR concepts. Includes breathing and cardiac emergencies for adults, children, infants, as well as injuries, open and closed wounds, burns, musculoskeletal injuries and sudden illness. Falls and Springs.

**HE2900 Disease, Safety, and Environment 3 credits**

Overview of basic diseases and disorders, as well as issues related to safety and the environment in the context of personal wellness. Students examine the impact of the physical, social, and cultural environment on human health and disease, as well as the impact that humans have on the health of the environment in terms of environmental health and safety, disease prevention, and control. Additionally, facilitates practice of certain skills required of Health Educators. Falls and Springs. (WECO)

**HE2920 Stress Management in the Criminal Justice Environment 3 credits**

Psycho-physiological, emotional and health-related aspects of stress are investigated and discussed in the specific context of the criminal justice environment. Self-assessment for stress tolerance and responses and selected techniques for self-regulating one's response to stressors are studied and practiced. Expands participant's awareness of the personal and professional circumstances in the criminal justice setting that contribute to the negative impact of stress on health. Provides opportunities to develop stress management and reduction strategies. Springs. *Prerequisite(s)*: Criminal Justice majors only. (WECO)

**HE3200 Stress Management 3 credits**

Provides students with an overview of mind body techniques to help manage stress and enhance health/wellness. Students explore a variety of healing methods, as well as practice, apply and demonstrate stress management interventions and management techniques. Falls and Springs. (WRIT)(WECO)

**HE3210 Mental Health Issues 3 credits**

Designed to provide students with information relevant to contemporary mental health issues and a means of identifying resource personnel and agencies pertinent to these mental health issues. Current theories of behavioral change are examined. Falls. (WECO)

**HE3220 Applied Nutrition for Healthy Living 3 credits**

Fundamental concepts of nutrition are addressed with a special focus on contemporary issues relevant to developing professionals in health and human performance. A survey of concepts in nutrition science is applied to the support of general wellness and active lifestyles throughout the lifespan. Falls and Springs. *Prerequisite(s)*: (BIDI 2010 and BIDI 2020) or (BI 2110 and BI 2120) or SW 2500. (TECO)

**HE3330 Evaluation and Research in Health Promotion 3 credits**

Offers Health Education majors the opportunity to evaluate the effectiveness of health promotion programs in the community, school and workplace. Emphasis is on computerized health information retrieval systems: selection of instruments for evaluating program effectiveness, reading, writing and interpreting research literature; and the ability to compute statistical techniques for data analysis. Springs. *Prerequisite(s)*: MA 1800 or higher. (QUAN)(QRCO)

**HE3660 CPR and First Aid Instructor 1.5 credits**

Designed to train students as first aid and CPR instructors. Falls and Springs. *Prerequisite(s)*: HE 2500 or (CPR and First Aid competency).

**HE3700 Drug Behavior 3 credits**

Provides the opportunities for students to discover and understand current scientific information regarding the relationship of drugs to mental and physical health. Particular emphasis includes the physiological, psychological, sociological, pharmacological and legal aspects of drugs in today's society. Course limited during regular session to Health Education Majors and Minors and Interdisciplinary students with a Health Education focus. Winterim and Summer offerings open to all. Falls and Springs. (WECO)

**HE3710 Sex and Family Living Education 3 credits**

A dialogue with individuals about who they are and how they relate to others. Seeks to provide learning experiences and guidance relevant to the needs, concerns, interests and aspirations that arise out of human psychosexual development. Intended to help students develop attitudes, values, goals and behaviors based on sound knowledge, that are conducive to the expressions of their sexuality as a positive and constructive force. Course limited during regular session to Health Education Majors and Minors and Interdisciplinary students with a Health Education focus. Winterim and Summer offerings open to all. Falls and Springs. *Prerequisite(s)*: BI 2110 and Health and Human Performance major and minors only.

**HE3750 Wellness Skills for Health Professionals 3 credits**

Gives students the opportunity to refine health education skills including professional writing, facilitator training, budget planning and developing a health education program for the community. Subscription to a specific electronic portfolio. Springs. *Prerequisite(s)*: HE 3760. (WRCO)

**HE3760 Planning and Implementing Health Promotion Programs 4 credits**

Designed to give students the tools and skills they need to plan and implement health education programs in a variety of settings, schools, communities and the workplace. Includes needs assessment, goal and objective writing, instructional strategies and resources and program implementation. Subscription to a specific electronic portfolio. Falls. *Prerequisite(s)*: HE 1970. (WRIT)



**HE388o Health Promotion****Practicum 1–3 credits**

Designed to give students a practical experience in health education supervised and controlled by the Department. May be repeated for up to 3 credits. Pass/No Pass. Individual Enrollment. Students are required to pay a liability insurance fee. *Prerequisite(s)*: junior/senior status; minimum 2.00 GPA; permission of Department Chair.

**HE403o Community Health****Promotion 3 credits**

A study of the practice of health promotion in the community and workplace. Students refine their health education skills and competencies in assessing, planning, implementation and evaluation of a major health promotion event. Subscription to a specific electronic portfolio. Fall of odd years. *Prerequisite(s)*: HE 376o.

**HE410o Women's Health****Issues 3 credits**

A study of women's health issues. Designed to help people develop and maintain a sense of responsibility for their physical, mental, sexual and social well-being and to make sound decisions based on accurate information. Analyzes a number of health issues such as substance abuse, reproductive health, ageism, sexual abuse and incest, stress management, eating disorders and other sexuality issues. Falls and Springs. (WECO)

**HE444o Health Promotion****Internship 6–12 credits**

Provides job training in the option of community health in a cooperative program with voluntary agencies, hospitals, corporations and health departments. Direct field experience is completed by the student under the supervision of a faculty member and experienced community health educators. Students are required to pay a liability insurance fee. Repeatable up to 12 credits. *Prerequisite(s)*: minimum 2.70 GPA (cumulative and major); senior status; approval of the Department Chair.

**HE453o Senior Seminar in Health****Promotion 1 credit**

This senior seminar is a culminating experience for Health Education majors. Includes a review for the National Certified Health Education Specialist exam, a study of the relationship of the health care system and health promotion field, and a discussion of job preparation skills. Springs. *Prerequisite(s)*: HE 375o.

**HE462o Health Promotion****Clinical 1 credit**

Designed to give students a practical experience in worksite/community health education supervised and controlled by the Department. Students are required to pay a liability insurance

fee. Falls and Springs. *Prerequisite(s)*: Health Education/Health Promotion juniors or seniors; minimum 2.60 cumulative GPA.

**HE464o School Health Clinical 1 credit**

Designed to give students a practical experience teaching health education in the school systems supervised and controlled by the Department. Students are required to pay a liability insurance fee. Falls and Springs. *Prerequisite(s)*: Health Education/School Health juniors or seniors who have attained a cumulative grade point average of 2.60 by the end of their 5th semester or minimum of 72 credits.

**HE491o Independent Study 1–3 credits**

A student-initiated research project on a selected topic agreed to by a department faculty tutor. Consent required of the instructor who will supervise the independent study and the Department Chair.

**HE495o Student Teaching K–12:****Elementary Component 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in HE 464o; minimum 2.70 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**HE496o Student Teaching K–12:****Secondary Component 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in HE 464o; minimum 2.70 cumulative GPA; completion of all other program requirements for certification by the beginning of the

student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**HI–History****HIDI205 Early American****Encounters 3 credits**

Generally, Americans view the settlement of Europeans in North America from the point of view of the Europeans. The process appears quite different when viewed from the point of view of the Native Americans. The interpretation of American settlement changes from one of conquest to one of invasion. Not only different times but also different cultures may shape different views of the world. Readings in Native American history and those of European understandings of the Native Americans, discussions of the readings and historians changing interpretations of events, and research into various American encounters allow students to study the changes that have taken place in the field of early American settlement and Native American history. Understanding the interactions of 16th and 17th century east coast Native Americans and Europeans allows students to gain a greater understanding of the modern clash of cultures that occurs around the globe. Falls. (HIST)(PPDI)

**HIDI206 Remembering Ronald****Reagan: A 20th Century History 3 credits**

Ronald Reagan's portrait hangs in a stately fashion in the Russell House, the DC office building of many US Senators including Judd Gregg (R-NH). Why was he chosen to be displayed? What is recalled by those who hark back to his 1980s presidency? What about the "Reagan's America" into which you were born was actually shaped by events before "the Reagan Revolution?" What about the world we live in today holds roots in the world of Ronald Reagan? Not open to students who have earned credit for HI 233o. Springs. (HIST)(PPDI)

**HIDI207 The American West 3 credits**

Considers the American West as a shifting location, a social process and a potent idea. Topics include Native American groups and colonizing encounters; the Lewis and Clark expedition; Manifest Destiny, the Texas Revolution and the Mexican-American War; the Gold Rush; the Oregon Trail; diversity; the West's natural resources and economic development. Explores the West as an ongoing subject of film, literature, art and television and as a presumed key to the American character. Spring of even years. (HIST)(PPDI)

**HIDI208 War in US History 3 credits**

Surveys American military history, using select wars to investigate the relationship of the past to the present. Studies the causes



and effects of select wars, examining particular battles and extant home front issues. Connects past strategies, events and debates to later times, along themes of politics, society and culture. Addresses the question: Has the US become a warrior nation? (HIST)(PPDI)

### **HIDI1305 Childhood in American**

**History 3 credits**

Explores the history of American childhood as an analytical tool for assessing the relationship between self and society. Students reconsider their own childhood, as shaped by historical and social factors. Falls. (HIST)(SSDI)

### **HIDI1307 Creating a Nation: A History of the United States,**

**1600–1877 3 credits**

Prepares students to be informed citizens of the United States. Topics provide background and insight into what made modern American society and its culture. Analyzes social, racial and economic as well as political factors of American life to provide a background for our evolving American society. Explores the relationship between individuals in American society and the impact of one individual on society. In written assignments and class discussions, students analyze primary documents and begin to see some of the difficulties and the rewards in investigating and understanding the past and how the past has an impact on the present. With that understanding, the class provides students with an understanding of how they fit into the larger American society. Springs. (HIST)(SSDI)

### **HIDI1315 Cultural Contact in**

**World History 3 credits**

Explores world-wide cultural interaction and exchange from the 14th century to the late 19th century. Examines 'culture' and how ideas, values, artistic understanding and methods of communication are transferred, both locally and globally—both across time and across space. Discusses how historians have defined key periods of cross-cultural contact and new scholarship on the identification of zones of interaction. Investigates methods of transfer (diffusion, synthesis and syncretism) so that we can understand how sharing information, technology and innovations across regional boundaries have shaped our human past. Through various case studies, interprets the changing role of the individual, the family, the community and the nation in formulating culture, both personal and public within a global context. Fall of odd years. (HIST)(SSDI)

### **HIDI1450 Roots of Current Global**

**Conflicts 3 credits**

In order to comprehend the present and envision the future, we must understand the past. Examines the historic origins of several global

conflicts, both regionally and thematically, so that we may better comprehend the past and envision the future. Historic themes such as famine, ethnic cleansing, terrorism and dictatorship are examined from a political, economic and cultural perspective. Discusses conflicts in the Middle East, nuclear tensions between India and Pakistan and the ethnic nationalist strife that continues to haunt Serbia and Croatia, among other regions. Discusses how these issues impact our own lives and why we should care. Falls. (HIST)(PPDI)

### **HI2005 Ancient and Medieval Civilizations**

**3 credits**

A comparative study of early civilizations. Not open to students who have earned credit for HI 1110. (HIST)

### **HI2010 World History Since**

**1500 3 credits**

An introduction to world history in the modern era, exploring major themes of our planetary past from the 16th century to present. Looks at both the problems and opportunities associated with such themes as trans-regional encounter, commercial exchange, identity formation and patterns of economic interaction. Concentrates on patterns of change over time, processes of interaction and connections between regions and nation-states. Themes explored include the advent of new technologies, new trade routes by sea, increased human migration, political revolutions and economic development. Regional studies of colonialism in India, nation-state formation in China and anti-Imperialist movements in Africa are also discussed. Not open to students who earned credit for HI 1160. Springs. (HIST)(GACO)

### **HI2015 Monarchs to Modernity:**

**Europe Since 1492 3 credits**

Introduction to the development of major political, economic and cultural events in European society, as well as their consequences in other parts of the world, from the Renaissance (15th century) to the present. Traces major ideas and institutions that helped shape the modern world and concludes with an analysis of current shifts in global relations between nations, regions, classes and cultures. Not open to students who have earned credit for HI 1120. (HIST)

### **HI2020 Surveying Themes in United States History**

**3 credits**

An intensive survey of United States history from colonial contact to the recent past. Examines the major topics, themes, directions and events in American history. Designed for history majors and others needing a comprehensive course of US history. Not open to students who have earned credit for HI 1130 and HI 1140. Falls. (HIST)

### **HIDI2310 American Economic**

**Development 3 credits**

A survey of United States history that focuses on those forces that shaped the economic development of the nation from colonial times to the present. The past can be viewed from many perspectives, including political, military, social and economic. Examines American history from the perspective of the economic forces that have shaped the present. Topics include the economic aspects of the U.S. Constitution, the role of innovation and technological change, the development of financial institutions, the transportation revolution, the labor movement and the expanding role of government in the evolution of the American economy. Springs. (HIST)(PPDI)

### **HI2710 History of Asian**

**Cultures 3 credits**

The cultures of China and India. Their classical civilizations and the changes brought about in the 20th century. Fall of even years. (GLOB)

### **HI3115 Early American Society**

**to 1776 3 credits**

During the colonial period, the colonists developed an amazingly diverse American culture and society. Though thought to be a 'virgin' land, when Spanish, English and French settlers arrived, they found Native American inhabitants already here. Dutch, Irish, Germans, Scotch-Irish and, forcibly, Africans followed. Influenced by both the cultural baggage this mixed society brought with it and the new circumstances in which settlers found themselves, the colonists in America became a new type society. Focuses on the work of historians who study colonial society and the development of American culture. Using primary documents and historical monographs and articles, students study and critique the methodologies used by various types of historians (cultural, social, political, environmental and intellectual) to develop their own theories of cultural development. US Group. Fall of even years. (WRIT)(DICO)(WRCO)

### **HI3116 Revolutionary America,**

**1763–1815 3 credits**

The American Revolution is one of the most important events in modern history. Not only did it lead to the creation of a new republic among the English-speaking inhabitants of North America, but it also played a key role in inaugurating the revolutionary epoch that engulfed much of Europe and Latin America during the next 75 years. Explores the Revolution chiefly as an American event, considering its origins, the extent to which it altered American society and politics and the ways in which the forces driving the Revolution influenced the history of the United States during its early years as a nation. Because the American Revolution

was in the first instance a political event, spends a good deal of time on questions of political ideology and constitutional thought. Also considers the social and economic setting within which the Revolution occurred and the way in which it affected those groups: women, slaves, native Americans, who were excluded from the formal exercise of political power. US Group. Spring of odd years.

**HI3140 Antebellum America, 1815–1860 3 credits**

Draws on the disciplines of history and literature to examine the United States in the tumultuous period between the early republic and the Civil War. Focuses on the era's reform movements, cultural experiments and clashes especially over slavery. US Group. Perspectives integrated: HIST, LITY. Fall of odd years. *Prerequisite(s)*: junior status. (INTG)(DICO)(INCO)

**HI3150 American Civil War and Reconstruction 3 credits**

Various causes of the Civil War followed by a treatment of the conflict and the ensuing Reconstruction period. US Group. Spring of even years. (WRIT)(WRCO)

**HI3330 New Hampshire and New England Historical Sites 3 credits**

Illustrates aspects of New England history that have had significant roles in determining the course of regional development. Includes field trips to important museums, abandoned town and industrial sites, urban locations, tourist meccas and contemporary locations that show the impact of growth and change. US Group. Summers only. (WRIT)(WRCO)

**HI3340 New Hampshire and New England History 3 credits**

Studying New Hampshire and New England history allows students to learn more about a particular region and to see how past events and movements at the local level interacted with or were influenced by various events and cultural changes on the national and international levels. New Hampshire furnishes an example of a state that played a fairly important role in colonial history and then declined in importance as the United States grew in area and population. The topics covered should create an awareness of the place of New Hampshire and New England in the various events that make up United States History. US Group. Falls. (WRIT)(WRCO)

**HI3350 American Women's History 3 credits**

For most of American history, women have existed outside the traditional power structure. Examines women's experience on its own terms by exploring women's societal positions, roles and role models, achievements and failures. Traces the history of American women from the glimpses of colonial and

Native American women scarcely mentioned in the records to the well-documented lives of modern women. Not open to students who have earned credit for HI 2680. US Group. Springs (not 2010). (HIST)(DICO)

**HI3352 African-American History 3 credits**

Explores African-American history. Using primary documents and drawing upon recent research, delves into subjects treated somewhat chronologically, including: Africa and the slave trade, African cultural carryovers to early African-American culture, American slave resistance and rebellion, free Black communities before the Civil War, Black Reconstruction in war and peace, the forging of Black communities in the age of industrialism, the Great Migration and the Harlem Renaissance, the quest for democracy in the global depression and its war, the nonviolent civil rights movement and the militant Black Liberation movement. US Group. Fall of odd years. (DICO)

**HI3354 Health and Illness in American History 3 credits**

Traces the history of health, illness and the pursuit of wellness throughout American history. Deals with illness and medical care as well as sport and physical exercise. Focusing on three distinct eras –the early 19th century, the decades around 1900 and the period following World War II– examines varieties of health experience and explores how individuals and communities have negotiated their health concerns. Offers a critical consideration of various definitions and models of wellness as they have changed over time, particularly in the physical, intellectual, social and environmental dimensions. US Group. Spring of odd years. (WECO)

**HI3356 American Ideas 3 credits**

Examines main currents in American thought from the Puritan era to the present. Follows both the activities of intellectuals and the changing pursuits that have made up a broader intellectual culture in America, particularly drawing on the disciplines of literature, philosophy (including religion), the sciences (particularly biology) and history. Explores how ideas arise and appear, relate to each other, change and recombine, cause events and create realities. US Group. Perspectives integrated: HIST, LITY. Fall of even years. *Prerequisite(s)*: junior status. (INTG)(INCO)

**HI3455 Early Modern England 3 credits**

The early modern period of British history was dominated by revolutions: the English Reformation and its long-term repercussions, the English Civil War and the Glorious Revolution. The Tudor and Stuart dynasties ruled the country during the period as England developed into a powerful and imperial national state. Explores the chang-

ing relationships between the monarchy and parliament and society, the impact of the Protestant Reformation, the development of a national economy and culture, the religious and political tensions created by international developments, as well as the social history of the English people. World Group. Spring of odd years. (WRIT)(GACO)(WRCO)

**HI3460 The British Empire in World History 3 credits**

Explores the construction and manifestation of British Imperialism, at its height, from the late 18th century until the early 20th century. Focuses on political, cultural, economic and material history as it pertains to specific regions in South Asia, Southern Africa and the Atlantic community. Examines the formulation of "imperial ideologies" and studies how the application of these ideologies shaped Britain's role in world history. Specific topics include: British slavery, commerce, naval power, gender politics, fashion, foodways, migration, famine and railroads. Emphasizes themes such as interdependence, global exchange, cross-cultural connections and interaction. World Group. Fall of odd years. (GACO)

**HI3480 The French Revolution and Napoleonic Era, 1789–1815 3 credits**

Examines the causes, events, consequences and theories of the French Revolution and Napoleonic Era. Sub-topics include the role of women in the French Revolution, the effects of the Revolution on France's colonies, law and war under Napoleon and the effects of the conflict on the rest of Europe. Throughout, the era is considered as a crucial moment in modernization and as a conflict among social classes. Explores various theoretical views of this much-theorized period. World Group. Spring of even years. (GACO)

**HI3500 Europe in the 20th Century 3 credits**

Pre- and post-World War I as background for ideologies and politics in 20th century Europe. World Group. Fall of even years. (GACO)

**HI3520 The Great Depression in Film, Print, and on Stage 3 credits**

With an emphasis on the United States, examines the Great Depression through interdisciplinary approaches: history, literature, film, and theatre. Emphasizes ways the events and themes of the period were experienced and recorded; with special attention paid to issues related to American interpretations of race, class, gender, ethnicity, and ideology extant in the period. Perspectives integrated: ARTS, HIST, LITY. US Group. Spring of even years. *Prerequisite(s)*: junior status. (INTG)(WRIT)(DICO)(INCO)(WRCO)

**HI3530 US Home Fronts: The 1940s and 1950s 3 credits**

United States society changed dramatically as the nation moved toward World War II, fought it and won. During the Great Depression Americans spoke of “the American way of life” filled with many forms of segregation and an entrenched economic order; afterwards, they spoke of “the American Dream” filled with promises of equality and progress. Using the themes of race, class, gender and ethnicity, examines the changes Americans created as they moved to fight a total war and wound-up fighting a cold one; all in the pivotal decades of the 1940s and 1950s. US Group. Fall of even years. (WRIT)(DICO)(WRCO)

**HI3540 Recent Times: The United States, 1960–2000 3 credits**

Investigates the recent past that has shaped the United States in which we live today. US Group. (DICO)

**HI3560 Gilded Ages? The United States: 1873–1929 3 credits**

The “Roaring Twenties” saw the emergence of the ‘new woman’ who could vote, the ‘new Negro movement’ establishing equality and the ‘new era’ of economic prosperity in a country suddenly ‘new’—urbanized, according to the 1920 Census, and populated with ‘new immigrants.’ Was the decade so new and, if so, how did it get that way? Explores the rise of the United States as an industrial giant, a world power and a leading proponent of democracy at home and abroad. Using themes of race, class, ethnicity and ideology, examines historical topics such as the post-Civil War South, urbanization, political economies (Populism, Progressivism and Conservatism), ideals of democracy and individualism, racism, foreign policies (such as the Spanish-American War and World War I) and, just what made the Twenties “roar.” US Group. (WRIT)(DICO)

**HI3730 Modern History of East Asia 3 credits**

Twentieth century East Asia. Western imperialism, dissolution of Manchu China, Japan’s bid for Oriental hegemony, the rise of the People’s Republic of China. World Group. Spring of even years. (WRIT)(GACO)

**HI3740 History of Japan 3 credits**

A survey of political, social and cultural history of Japan from its origin to the present, with emphasis on the modern time. Special attention is given to the basic structure and character of traditional Japanese society, the Meiji Restoration and its consequences and the economic development of Japan after 1945. World Group. Fall of even years. (GACO)

**HI3750 History of Modern China 3 credits**

A study of Chinese history from the mid-19th century, when China faced western challenge, to the present. The focus is on the western impacts and the Chinese responses, the rise and fall of the nationalist regime and the emergence of China under the Communist government. World Group. Fall of odd years. (GACO)

**HI3760 History of Southeast Asia 3 credits**

A study of the history of Malaysia, Vietnam, Cambodia, Laos, Thailand, Burma, Indonesia and the Philippines—with emphasis on their early beginnings to their independence. World Group. Spring of even years. (GACO)

**HI3765 India and the World 3 credits**

An interdisciplinary look at the history of the Indian subcontinent in global context, from the late 15th century until today. Several factors compel Americans to study this region more closely and to understand its past relationship with world powers, including: the growth of South Asian communities in America, increasing nuclear tensions in the region, the rise of fundamentalism, the booming hi-tech economy transforming India and the world, and the daunting fact that one in every six humans of the planet is South Asian. World Group. Perspectives integrated: HIST, LITY. Fall of odd years. *Prerequisite(s)*: junior status. (INTG)(GACO)(INCO)

**HI3770 The History of Islamic Empires 3 credits**

Focuses on the history of Islam, starting with the Golden Age of Islam during Mohammed’s time. Examines the contributions of the three major Islamic empires: Ottoman, Safavid, and Mughal. Places today’s issues in historical context in regions such as the Middle East, India, and Africa. Explores the expansion of Islam via trade routes, the Shi’a/Sunni schism, the Crusades from the Arab perspective, the evolution of Muslim identity in relation to colonization, modernization, and global economics shifts. Fall 2010, Fall 2012. (GACO)

**HI3810 Topics in History 1–3 credits**

Specialized topics in history not normally covered in depth in other history courses. US Group. Occasionally.

**HI3820 Topics in History 1–3 credits**

Specialized topics in history not normally covered in depth in other history courses. World Group. Occasionally. (GACO)

**HI3826 Sex and Empire in Colonial India 3 credits**

Invites students to examine the popular, political and private representations of indigenous and foreign women who lived on the Indian

subcontinent during the 19th and 20th centuries. Explores the gendered politics of empire building, studies the invention of women’s “traditions” (both English and indigenous), the social construction of Victorian femininity and “motherhood,” Indian women’s organization, resistance, activism and agency, legislative efforts to regulate the sex lives of subaltern populations and the personal politics of reproduction and intervention of the colonial state. Emphasizes how political power and impressions of gender are shaped in an interconnected and interdependent world. World Group. Fall of even years. (WRIT)(GACO)(WRCO)

**HI3828 Women and Global Colonialism 3 credits**

Examines the complex dynamic of gender as it related to women from non-western societies during periods of colonialism and post-independence nation-state formation. Examines concepts such as “third world women” and discusses how such terms must be understood in the context of world history and imperialism. Studies how gender is constructed in various historic contexts through a variety of written and visual materials, including women’s personal accounts, travel narratives, historical essays and films. Emphasizes the economic and political contexts of particular women’s movements, as well as the ways in which gendered identities are formed both at the local and global levels. While recognizing that the history of women in many parts of the world has been shaped by oppressive politics, patriarchies and economic disadvantage, moves beyond definitions of third world women as “victims;” looks at issues of women’s agency, resistance, cooperation, unionization and activism. World Group. Fall of even years. (GACO)

**HI4000 History Internship 1–6 credits**

Students engage in work programs and thereby apply knowledge gained from history courses. Qualifications to be an intern are determined by the faculty member who acts as a supervising professor. Once placed, student interns have both an immediate onsite supervisor and either a supervising history professor or the Discipline Coordinator’s designee. Each credit usually includes 30 hours onsite plus 10 hours of additional reading. Repeatable for up to six credits. *Prerequisite(s)*: permission of the instructor.

**HI4358 Public History and Local History Methods 3 credits**

Employs place-based techniques to explore broader theoretical, methodological and practical concerns in history. Allows students to develop an understanding of the past through a critical awareness of uses of the past. Students create a presentation of local history to present to the public. Familiarizes students with the various topics, research

methods, analytical techniques and forms of presentation for local history using Plymouth as a model. US Group. Spring of even years. (TECO)

#### **HI4444 History Capstone Seminar 3 credits**

Designed to integrate discipline-specific knowledge into a culminating senior experience. Using critical thinking, research, analysis and communication skills, students write an original historical paper that draws on both secondary literature and primary sources and present that information in a formal setting. Assignments are designed to guide students through the process of formulating, researching and writing the paper over the course of the semester. The main theme of the seminar will vary based on the instructor. Falls. *Prerequisite(s)*: completion of a History Writing in the Discipline Connections course.

#### **HI4500 History Thesis 3 credits**

One semester course for more extensive research projects where students are expected to complete a thesis of scholarly merit and one that meets the standards of good organization and writing style. Students are either invited by the History Faculty to participate or may request admission. With permission. (WRIT)

#### **HI4510 History Thesis 3 credits**

The second semester of a more extensive research project, where students are expected to complete a thesis of scholarly merit and one that meets the standards of good organization and writing style. Students are either invited by the History Faculty to participate or may request admission. With permission. (WRIT)

#### **HI4910 Independent Study 1-3 credits**

Background in history through systematic readings, both intensive and extensive, supplementing previous course work in the field. Periodic conferences, a paper and an oral examination are included. Consent required of the instructor who will supervise the independent study and the Department Chair.

### **HU—Humanities**

#### **HU4010 Senior Project I 3 credits**

In the senior year students are required to undertake a senior project combining at least two fields of study. The proposal must meet with the approval of the Humanities Council and must be supervised by at least two Plymouth State University professors (at least one must be a member of the Humanities Council). The research requires extensive readings (in English and the foreign language in which the student has proven proficiency). At each weekly meeting the student is given an assignment based on the course research.

At the end of the semester the extensive and approved proposal for the final research paper and presentation along with appropriate bibliography is submitted and graded. Falls. *Prerequisite(s)*: Humanities majors only.

#### **HU4020 Senior Project II 3 credits**

The second semester of this project requires the student to meet with the appropriate professor(s) on a weekly basis. The process of creating the final project is documented on a weekly basis. A final research paper, that undergoes numerous writings and rewritings during the course of the semester, fulfills the writing component. In addition to the substantial research paper, a presentation of the research is given in a suitable format that is discussed and refined during the course of the semester. The student's final project must be presented to the entire Humanities Council. The supervising professor(s), in consultation with the Council, issues the final grade. Springs. *Prerequisite(s)*: HU 4010. (WRCO)

### **IS—Interdisciplinary Studies**

#### **IS1010 An Introduction to the Academic Community 1 credit**

An introduction to the concept and nature of the academic community, including its values, expectations and activities. Emphasizes the goals of scholarly activity, including the resources available, and the skills needed to accomplish those goals. Required of all first-year students admitted prior to Fall 2004, during their first semester at Plymouth State University. Elective for transfer students entering with 24 or more credits. Pass/No Pass. Unscheduled.

#### **IS1111 The First Year Seminar: Critical Thinking and the Nature of Inquiry 3 credits**

Introduces students to the concepts of general education and the academic community and to the skills educated people use to generate and address important questions. Using critical thinking skills and basic tools of gathering and evaluating information, students and the instructor together engage in a meaningful exploration of a specific "Question." The "Question" varies across sections of the course. Required of all first year students, admitted beginning Fall 2004, during their first semester at Plymouth State University. Falls and Springs.

#### **IS1750 Special Topics 1-4 credits**

Explores lower-level interdisciplinary topics not covered in other courses. Repeatable with a different topic. Pass/No Pass or letter graded. Occasionally.

#### **IS2222 Introduction to Interdisciplinary Studies 3 credits**

Gives introductory Interdisciplinary Studies students a structured opportunity to frame

and plan a deliberate and thoughtful interdisciplinary program of study. Topics covered include: What does it mean to be an educated person? What are the dominant philosophical models of education, and what are their limits and strengths? How is interdisciplinarity changing the shape both of higher education and of knowledge in general? How do the two Interdisciplinary Studies options differ from one another and what kinds of interdisciplinary paths are possible at PSU? Students create a non-binding Interdisciplinary Studies contract related to their own personal goals and interests and a multimedia presentation with an accompanying long paper that outlines their own educational philosophies and plans for interdisciplinary study. Falls.

#### **IS3003 Interdisciplinary Studies Practicum 1-3 credits**

Gives students the opportunity to explore connections across fields related to a theme or topic of their choice. The possibilities are many, as students work with a faculty advisor to propose and execute a project related to their degree. The practicum may entail (but is not limited to): the planning of a conference, either at the University or in their community; the execution of an activist event such as a rally; the publication of a collection of essays; the launch of a Web site; the production of a documentary; the writing of a business plan; the application of a grant; or, the execution of an internship. May be repeated for a maximum of six credits. Falls and Springs. *Prerequisite(s)*: IS 2222; Interdisciplinary Studies majors only.

#### **IS3090 Food Issues 3 credits**

Food as a human artifact is examined from various disciplinary perspectives, e.g., scientific, social-psychological, historical, global. Grains and breads are the center of the investigations, with students having the opportunity to examine other foods independently. Topics include the Neolithic agricultural revolution, genetics of grains, cross-cultural aspects of food production and consumption, the evolution of food preparation and global issues such as the green revolution and famine. Perspectives integrated: HIST, PHIL, SCIE, SPSY. Falls. *Prerequisite(s)*: junior status. (INTG)(INCO)

**IS3390 Applied Ethics 3 credits**  
See PY 3390 for course description. Perspectives integrated: PHIL, SCIE, SPSY. Unscheduled. *Prerequisite(s)*: junior status. (INTG)

**IS3430 The Life Cycle in Film 3 credits**  
Key aspects of the life cycle have been portrayed in feature films. Examines a number of psychological theories of development (with some emphasis on adulthood) and sociological/ historical perspectives on the life cycle through critical study of appropriate



films. Division of Continuing Education only. Perspectives integrated: ARTS, LITY, HIST, SPSY. Springs. *Prerequisite(s)*: one SPSY and one LITY Perspectives and junior status. (INTG)

**IS3440 God, the Devil, and Moral Choice in Film 3 credits**

Combines ideas and issues from (primarily Western) philosophy, theology, religion, and psychology, as illustrated in foreign and American feature films. Among the issues to be explored are: the existence or nonexistence of God; the nature of God; the relationship between God and humankind; the problem of evil; Divine command and sin; free will and determinism; moral choice and “selling out to the Devil”; faith, revelation, and evidence; the possibility--and significance--of miracles; life after death; and Divine justice. Examines in some detail the problem of the “silence” of God, particularly in the films of Ingmar Bergman. Perspectives integrated: LITY, PHIL, SPSY. Falls. *Prerequisite(s)*: junior status. (INTG)

**IS3470 Women in Contemporary American Culture 3 credits**

Explores the attitudes which shape the professional and social opportunities for American women today. Reading for the course includes necessary historical background but focuses on contemporary issues. Students learn to examine the attitudes and beliefs that women hold and the decisions that women make in society in general and in the work place. Perspectives integrated: HIST, LITY, SPSY. Falls. *Prerequisite(s)*: junior status. (INTG)(INCO)

**IS3480 Perspectives on Wilderness 3 credits**

Examines changing perceptions of North American wilderness as documented by literature, art, historical accounts and science. Works include fiction, poetry, memoirs of explorers and settlers, writings of naturalists/scientists that describe the relationships of their authors with the natural environment. Also examined are the visions of the landscape and the flora and fauna as manifested in paintings and photographs. The purpose is to show the interrelationships amongst at least the three perspectives mentioned above and to examine the consequences of these relationships with respect to our contemporary attitudes and institutions. Perspectives integrated: ARTS, HIST, LITY, SCIE. *Prerequisite(s)*: junior status. (INTG)(DICO)(INCO)

**IS3500 Film and Society: Perspective and Conflict 3 credits**

A psychological, sociological and anthropological examination of the processes by which people and societies construct and maintain their reality and a consideration of the results

of inevitable reality conflict, as portrayed in classic and recent films. Perspectives integrated: GLOB, LITY, PHIL, SPSY, SCIE. Unscheduled. *Prerequisite(s)*: junior status. (INTG)

**IS3530 Exploring Contrasts: Classic vs. Romantic 3 credits**

Many works in the art, literature and music reflect contrasting perspectives at the time the works were created. Often the terms ‘Classical’ and ‘Romantic’ are used to suggest these opposing but complementary views. Examines these characteristics as they may be seen, read or heard. It’s a “self discovery” course. Class members are expected to demonstrate increased knowledge through discussion, journal entries, projects and other creative responses. Perspectives integrated: ARTS, LITY. Springs. *Prerequisite(s)*: junior status. (INTG)(INCO)

**IS3560 Philosophical Perspectives on War and Peace 3 credits**

See PY 3560 for course description. Perspectives integrated: HIST, PHIL, SPSY, TECH. Springs. *Prerequisite(s)*: junior status. (INTG)(GACO)(INCO)

**IS3610 Biology of Sex Roles 3 credits**

Exposes students to a scientific perspective on the differences in sexes in animals, with particular focus on humans. Both physiology and behavior are discussed in the context of evolution. The intent is to heighten awareness of the evidence for evolutionary explanations of sex roles while simultaneously considering the limitation of science in understanding the social behavior of our species. Perspectives integrated: GLOB, HIST, SCIE, SPSY. Fall of even years. *Prerequisite(s)*: junior or senior status. (INTG)(DICO)(GACO)(INCO)

**IS3750 Special Topics 1–4 credits**

Upper-level topics vary and may be repeated for credit with a different topic. Pass/No Pass or letter graded. Occasionally.

**IS4050 Personal Mythology 3 credits**

Explores the world of myth and defines “personal myth,” using discussion and readings drawn from various perspectives; intentionally personal, it addresses the human condition and the language of myth used to speak about/to that condition. Students are expected to be active participants as that language evolves. Perspectives integrated: PHIL, SPSY. Springs. *Prerequisite(s)*: junior status. (INTG)

**IS4060 Cosmology, Evolution, and Philosophy 3 credits**

An inquiry into various philosophical perspectives on evolution. To explore the deeper philosophical implications of evolutionary science and the riddle of existence so as to provide fresh insights into the meaning of humanity and our place in the universe. Investigates

paradigms such as a universe of chance, randomness and probabilities or ones of design and purpose. Emphasis is placed upon the student’s ability to critically associate epistemological positions with perspectives on evolution. Perspectives integrated: HIST, PHIL, SCIE. Fall of even years. *Prerequisite(s)*: junior status. (INTG)

**IS4160 The Ice Age 3 credits**

Designed to investigate the impact of the Pleistocene or Ice Age (approximately 1.8 million to 10,000 years ago), upon the physical and cultural evolution of humans. Perspectives integrated: GLOB, SCIE. Spring of even years. *Prerequisite(s)*: junior status. (INTG)(INCO)

**IS4360 Cultural Diversity and American Society 3 credits**

To respond effectively to the challenges and opportunities associated with the increasing racial, cultural and social class diversity within the United States, individuals need to develop an understanding of related concepts, principles, theories and practices. Students consider information, issues, theories and beliefs essential to understanding and relating to individuals in diverse cultures. Topics include: reviewing diverse cultural beliefs and practices; the influence of culture on the development of beliefs, values and behaviors; the nature of prejudice; gender differences; historical development; the influence of social class on behavior; religious diversity; and language policies. Not open to students who earned credit for CD 2360. Perspectives integrated: GLOB, SPSY. Falls and Springs. *Prerequisite(s)*: junior or senior status. (INTG)(DICO)(INCO)

**IS4370 Hispanic Culture in the United States 3 credits**

Designed to acquaint students with the widespread influence of Spanish language, culture and literature in the social fabric of the United States. Investigations of the Chicano, Puerto Rican and Cuban realities predominate. Taught in English. Students who read Spanish have the opportunity to do so, but no knowledge of Spanish is required. Counts toward Spanish major or minor. Perspectives integrated: ARTS, GLOB, HIST, LITY, SPSY. Springs. *Prerequisite(s)*: junior status. (INTG)(DICO)(INCO)

**IS4444 Interdisciplinary Studies Senior Seminar 3 credits**

Gives senior-level Interdisciplinary students the opportunity to reflect on what they have accomplished through their program of study. Students examine current theories and debates in Interdisciplinary Studies, as well as consider the ways their coursework can be integrated with questions related to key categories of inquiry that shaped their programs, such as diversity, global awareness, and what



it means to be an educated person. As part of this seminar, each student will undertake a thesis project that will bring her/his education to a culmination, thus providing a capstone experience. This thesis may take many forms (a long paper, a presentation, a multimedia project, a film, a web site, etc.), will incorporate both quantitative and qualitative thinking and the use of technology-related tools, and will be accompanied by a written piece that functions as a process paper, summarizing the project's integrative construction and conclusions. Springs. *Prerequisite(s)*: IS 2222; Interdisciplinary Studies majors only.

**IS4450 Ecclesiastical History: Origins to the Reformation 3 credits**

An inquiry into the history and thought of the Christian Church from its roots in Judaism, during the first century of the Common Era, to the events of the Reformation. Emphasis is placed on the history, philosophy and theology of the founding of the church of Christendom, the building and flourishing of that Church and the events leading to its political and intellectual fractionalization. Perspectives integrated: HIST, PHIL. Unscheduled. *Prerequisite(s)*: junior status. (INTG)

**IS4500 Comparative Social Services 4 credits**

Within this intensive learning process, students gain knowledge about how different systems of healthcare delivery, education and social services exist for the people studied. Examines issues of ethnocentrism, belief systems, social institutions, social values and norms, stereotypes, labeling theory, racism and discrimination. Students understand how society can best respond to the social problems which impact the culture(s) studied. Students may take and receive credit more than once provided that each course taken has a different culture studied. Division of Continuing Education only. Perspectives integrated: GLOB, SPSY. Unscheduled. *Prerequisite(s)*: (AN 2210 or SO 2220) and junior status. (INTG)

## LA—Latin

The Global Perspective (1986–2005 General Education requirement) is satisfied *either* by completing one of the following sequences: LA 1030 and LA 1040  
LA 1040 and LA 2050  
LA 2050 and LA 2060  
or by completing a departmental proficiency test and one semester at the Intermediate II level (LA 2060).

**LA1030 Fundamentals of Latin I 4 credits**

An introduction to classical Latin language and culture. Exact knowledge of grammatical forms. Translations both from and into Latin.

Latin roots in English. Sketches of Roman history. Students with no more than two years of high school Latin or no previous study of Latin. Unscheduled. *Corequisite(s)*: LA 1900. (GACO)

**LA1040 Fundamentals of Latin II 4 credits**

Continuation of LA 1030. Unscheduled. *Prerequisite(s)*: LA 1030 or equivalent. *Corequisite(s)*: LA 1905. (GACO)

**LA1900 Fundamentals of Latin I—Lab 0 credit**

A self-directed lab. Students complete assignments in the Language Learning Resource Center (Hyde 221). Unscheduled. *Corequisite(s)*: LA 1030.

**LA1905 Fundamentals of Latin II—Lab 0 credit**

Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: LA 1040.

**LA2050 Intermediate Latin I 3 credits**

Continuation of first year Latin; more advanced work in classical Latin and literature. Readings in prose and poetry. Translations. Sketches of Roman history and esthetics. Unscheduled. *Prerequisite(s)*: three or more years of high school Latin, or one year of university first-year Latin.

**LA2060 Intermediate Latin II 3 credits**

Continuation of LA 2050. Unscheduled. *Prerequisite(s)*: LA 2050 or equivalent.

## LL—Language and Linguistics

**LL1010 Special Topic: Fundamentals of Language and Cultural Studies I 3 credits**

An introductory language course with two regular class meetings per week with a visiting professor who is a native speaker of the language. Emphasis is on oral communication. An introduction to language and cultural studies of a selected country. Repeatable with a different language. Springs. (GACO)

**LL1020 Special Topic: Fundamentals of Language and Cultural Studies II 1–3 credits**

An immersion late spring/early summer short-term language and cultural studies course in a country that speaks a language which is not offered by the Plymouth State University language programs. Continuation of LL 1010 taken during the preceding spring term on campus. Fundamentals of the language, cultural events, short trips and excursions in the foreign country. Includes a variable project for 1–3 PSU credits contracted with a Languages and Linguistics Department

instructor. A study abroad program fee is charged. May be repeated with a different language. Summers. *Prerequisite(s)*: LL 1010.

**LL1180 Guided Language Practice I 1–3 credits**

An opportunity for intensive language practice via language laboratory, audio, video or DVD and/or conversation with instructor. Credit is based on a contract designed by the instructor and the student. Can be taken for grade or Pass/No Pass, in conjunction with or independently of a classroom course. Student chooses language (French, German, Latin, Spanish or other language approved by the Department Chair). Repeatable for credit. Unscheduled.

**LL2000 Introduction to Language and Linguistics 3 credits**

Examines the nature of language, language systems, language in context, language acquisition, and the historical development of English. Topics include: the metalinguistic knowledge of the English morphology, phonology, syntax, and semantics; how individuals learn and use their first language; how individuals acquire and use additional languages; language variation; ways in which language shapes and is shaped by society and individual identity; and language policy. Examines the historical development of the English language, situating present-day English within an historical framework. Emphasizes quantitative research design, analysis, and interpretation. In addition to examining numerous research studies, students undertake original data collection and analysis. Falls and Springs. (QUAN)(QRCO)

**LLD12100 Introduction to Canadian Studies 3 credits**

Open to all undergraduate students. Offers an opportunity to acquire a longer-range understanding of a nation which is becoming increasingly important to the United States. Why two countries instead of one? Free trade? A unified North American economic zone? Quebec separatism? Official multiculturalism? These and other pertinent issues are studied and discussed. Approaches the idea of Canada from a variety of past and present perspectives, breaks down its stereotypes, and celebrates its tremendous successes. Canada's evolution as a world power, subtle but well-respected, can be appreciated with an eye toward its longtime recognition that culture, language, and human rights are as important as political power or military force. Springs. (PPDI)

**LL2180 Guided Language Practice II 1–3 credits**

An opportunity for intensive language practice via language laboratory, audio, video or DVD and/or conversation with instructor. Credit is based on a contract designed by the

instructor and the student. Can be taken for grade or Pass/No Pass, in conjunction with or independently of a classroom course. Student chooses language (French, German, Latin, Spanish or other language approved by the Department Chair). Repeatable for credit. Unscheduled.

**LL2400 Foreign Language Project 1–3 credits**

Designed to allow students who study away from the Plymouth campus an opportunity to work on a credit-bearing program in cooperation with a Plymouth faculty person. Among possible projects: a diary in the target language of activities during travel abroad or while working with a foreign language-speaking group; a group of reports in the target language of intern work; a specific reading project connecting reading with sites visited, etc. Students arrange in advance the concept of the project and select the level and credits based on length and complexity of the project. Prior consent of the Department. Unscheduled.

**LLDI2500 The History of the English Language 3 credits**

Examines the historical development of the English language from its earliest origins through the present day. Topics include: causes of language change, etymology, and the influences of other languages. Explores how this history suggests possible directions of English in the 21st century. Falls. (PPDI)

**LL2850 American Sign Language I 3 credits**

See SE 2850 for course description. Falls.

**LL2860 American Sign Language II 3 credits**

See SE 2860 for course description. Springs. *Prerequisite(s)*: LL 2850 or SE 2850.

**LLDI2950 Language Acquisition 3 credits**

Participants examine the nature of first and additional language acquisition and development. Topics include first language acquisition, additional language acquisition by children and adults, bi- and multilingualism. Emphasizes the investigation of first and additional language acquisition through student research studies. Springs. (SIDI)

**LL3100 The History and Structure of the English Language 3 credits**

Participants examine the phonology, morphology, and syntax of English, the history of English and World Englishes. This is an introduction to the formal aspects of the English language system. Briefly considers the relevance of linguistic knowledge to teaching first and second languages, when and how to teach grammar and ways to integrate grammar into a communicative curriculum. Last offering Fall 2010.

**LL3170 Seminar: Foreign Literatures in Translation 3 credits**

Foreign literature in translated form. Lecture, individualized study, reports in English. No language knowledge needed. Unscheduled.

**LL3180 Guided Language Practice III 1–3 credits**

An opportunity for intensive language practice via language laboratory, audio, video or DVD and/or conversation with instructor. Credit is based on a contract designed by the instructor and the student. Can be taken for grade or Pass/No Pass, in conjunction with or independently of a classroom course. Student chooses language (French, German, Latin, Spanish or other language approved by the Department Chair). Repeatable for credit. Unscheduled.

**LL3300 Foundations of Multilingual Multicultural Studies 3 credits**

Examines the theory and practice of multilingual multicultural education, from a sociopolitical perspective. Emphasizes understanding acculturation and academic achievement of, and programmatic alternatives and pedagogy for English Language Learners (ELLs) in a pluralistic society. Explores the impact of the cultural backgrounds on language minority children and their families, and their adjustment to a new society, on school achievement and language acquisition. Springs. (DICO)

**LL3400 Foreign Language Project 1–3 credits**

Designed to allow students who study away from the Plymouth campus an opportunity to work on a credit-bearing program in cooperation with a Plymouth faculty person. Among possible projects: a diary in the target language of activities during travel abroad or while working with a foreign language-speaking group; a group of reports in the target language of intern work; a specific reading project connecting reading with sites visited, etc. Students arrange in advance the concept of the project and select the level and credits based on length and complexity of the project. Prior consent of the Department. Unscheduled.

**LL3500 Research in Applied Linguistics 3 credits**

Provides an introduction to research design and methodology in applied linguistics. Participants examine the components of and numerous approaches to applied linguistics research; read and critically examine numerous research studies in applied linguistics, and design and carry out a research study of their own. Spring of even years.

**LL4100 TESOL Methods and Practice 4 credits**

Participants learn the foundations of communicative language teaching to non-native

speakers in multicultural and homogenous classrooms. Topics include content-based instruction, teaching of the four skills, curriculum development, materials adaptation, lesson planning and execution, and assessment. Students gain both a theoretical grounding and hands-on experience with scaffolding content for language learners, and with developing learner strategies. Participants acquire and practice the skills needed to teach English to students of all ages and abilities. Includes a 30-hour supervised field experience. Falls.

**LL4210 Foreign Language Methodology for K–12 3 credits**

Presentation of learning and teaching theories/practices in foreign language education. Emphasis is on assisting the student in collecting, creating and adapting instructional materials appropriate to elementary, middle and senior high school foreign language courses. Observation and analysis of authentic classes. Preparation and implementation of individual lesson plans. Long-range planning, development of assessment tools, text book evaluation. Choosing effective tools for teaching with technology. Prepares the student for a successful student teaching experience. Taught in English. Students need a final grade of C in this course as a prerequisite to LL 4950. Last offering Spring 2012.

**LL4300 Literacy in Language Learning 3 credits**

Examines current theories and practice of first and second language literacy development. Topics include developing literate behaviors, reading and writing fluency strategies, vocabulary development, and the writing process. Emphasizes the development of participants' proficiency in teaching reading and writing to students of different ages and ability levels through phonics, whole language, and integrated approaches. Springs.

**LL4400 Foreign Language Project 1–3 credits**

Designed to allow students who study away from the Plymouth campus an opportunity to work on a credit-bearing program in cooperation with a Plymouth faculty person. Among the possible projects: a diary in the target language of activities during travel abroad or while working with a foreign language-speaking group; a group of reports in the target language of intern work; a specific reading project connecting reading with sites visited, etc. Students arrange in advance the concept of the project and select the level and credits based on length and complexity of the project. Prior consent of the Department. Unscheduled.

**LL 4500 Teaching of Language Seminar 1 credit**

Corequisite to accompany LL 4950 for those pursuing the Teacher Certification Option in

French or Spanish. Provides a weekly forum, face-to-face and/or online, to assist candidates in developing personal teaching skills by sharing problems and successes with curriculum, classroom management, and the dynamics of dealing with cooperating teachers, colleagues, parents, and school administrators. Last offering Spring 2012. *Corequisite(s)*: LL 4950.

**LL4820 Language Assessment 3 credits**  
Explores different approaches for creating, scoring, and evaluating both formal and informal standards-based language assessment measures for students of different ages and ability levels. Topics include authentic communicative assessment measures, portfolio assessment, and standardized testing for placement, to inform instruction, and measure achievement; test biases; testing different skills; and knowledge of state and federally mandated assessment measures and their implications for English language learners. Foregrounds authentic and useful classroom language assessment measures. Springs.

**LL4910 Independent Study 1-3 credits**  
Students, working with a faculty advisor, select a topic in a specialized area of interest for study and in-depth research. Consent required of the instructor who will supervise the independent study and the Department Chair.

**LL4950 Student Teaching of Languages K-12 11 credits**  
A capstone experience for French or Spanish Teacher Certification Option majors, leading to teacher certification. It is a continuous full-time (five days per week) experience of 11 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities in French or Spanish at either the elementary, middle or secondary school level. Student teaching is conducted under the supervision of a cooperating teacher and member of the University faculty. A required seminar (LL 4500) complements the experience. Last offering Spring 2012. *Prerequisite(s)*: minimum grade of C in LL 4210; minimum 2.50 cumulative GPA; completion of all other program requirements for certification; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: LL 4500.

## MA—Mathematics

**MA1200 Topics in Algebra and Geometry 4 credits**  
Designed to help students improve their skills in algebra and geometry. Topics include: first and second degree equations, polynomials and factoring, ratios and proportions through similar geometric figures, areas and volumes of plane and solid figures, coordi-

nate geometry and exponents and radicals. Required for students who have not satisfied the Preliminary Mathematics Requirement. Does not satisfy Mathematics Foundation or any General Education requirement. Falls. *Prerequisite(s)*: provisionally admitted students or permission of the Department Chair.

**MA1500 Mathematics and the Humanities 3 credits**  
For liberal arts majors and others interested in the relationships of mathematics to fields such as Art, Music and Philosophy. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

**MA1800 College Algebra 3 credits**  
After a quick review of algebraic expressions, exponents and coordinate graphs, general polynomial functions, exponential and logarithmic functions and linear and non-linear systems are examined algebraically and analytically. Conic sections, right triangle trigonometry and selected topics complete the course. Intended for students who need a stronger algebra background than MA 1200 provides, have some previous algebra experience, but are unable to demonstrate Level Two mastery on the Placement Exam. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement.

**MA1900 Statistical Literacy in Today's Society 3 credits**  
Learn to interpret and evaluate reports in the media on studies of substance dependency, medical issues and other socio-cultural concerns. The goal is to learn to understand the statistics encountered in the news or in everyday life rather than to learn specific statistical techniques. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry). (QUAN)(QRCO)

**MA2010 Problem Solving in Algebra Using Technology 3 credits**  
The development of problem solving strategies using mathematics content normally covered in high school Algebra II. Problems require integration of algebra concepts and selected topics from geometry, trigonometry and basic data analysis. The instructional format emphasizes cooperative learning, oral and written communication and extensive use of the graphing calculator and selected computer software as useful problem solving tools. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., comple-

tion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement.

**MA2110 Mathematics in Our World I 4 credits**  
A mathematics course for those pursuing majors in Childhood Studies or Early Childhood Studies. The instruction format emphasizes activity-based learning, problem-solving, cooperative learning and communication. Students study mathematics foundational to teaching mathematics at the K-8 level including topics from number, geometry and measurement, probability and statistics, and algebra. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth State University.

**MA2140 Elementary Functions 4 credits**  
With the concept of function as a central theme, considers selected topics from algebra, trigonometry and analytic geometry, including complex numbers and DeMoivre's Theorem. Graphing calculators are required and used throughout the course. Falls and Springs. *Prerequisite(s)*: MA 1800, or score Level 2 or Level 3 on the Mathematics Placement Exam, or with permission of instructor, high school pre-calculus mathematics. (QUAN)(QRCO) (TECO)

**MA2200 Finite Mathematics 3 credits**  
Using algebra to solve analytical problems. Includes work with matrices, linear programming, counting techniques, probability, expected value and Bayes' Theorem. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

**MA2300 Statistics I 3 credits**  
An introduction to statistics with applications in several disciplines such as Business, Psychology, Education, Social Sciences or Natural Sciences. Included are both descriptive and inferential statistics. Among the topics are numerical and graphical summaries for one and two variables, linear regression and correlation, confidence intervals and tests concerning means. A standard statistical software package is used throughout the course. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

**MA2350 Statistics for Criminal Justice 3 credits**  
An introduction to statistical analysis designed to equip students of criminal justice with the

skills necessary to analyze and interpret data from both original and existing data sets. Principal learning goals: to select the most appropriate statistical techniques for specific research problems, to understand fundamentals of codebook construction and manipulation, to calculate the appropriate statistics using SPSS and to properly interpret the results. Not open to students who have earned credit for MA 2300. May be taken as CJ 2350. Falls and Springs. *Prerequisite(s)*: regular admission to Plymouth (i.e., completion of high school Algebra II and geometry) or removal of mathematics deficiency by completing the Preliminary Mathematics Requirement. (QUAN)(QRCO)

#### **MA2490 Applied Calculus I 4 credits**

The first semester of a calculus sequence dealing with applications of the differential and integral calculus to disciplines, such as, Business, Social Science and Biology. Functions and their graphs, limits, continuity, the derivative and its uses in optimization and mathematical modeling, the Fundamental Theorem. Graphing calculators are used throughout the course. If credit has been granted for MA 2510, 2520, 2550 or 2560, consent of Mathematics Chair is required in order to receive credit for either MA 2490 or MA 2500. Falls and Springs. *Prerequisite(s)*: MA 1800, or score Level 2 or Level 3 on the Mathematics Placement Exam, or with permission of instructor, high school pre-calculus mathematics. (QUAN)(QRCO)

#### **MA2500 Applied Calculus II 4 credits**

The second semester of a calculus sequence dealing with applications of the differential and integral calculus to disciplines, such as, Business, Social Science and Biology. Calculus of transcendental functions, applications of integration, some differential equations, multidimensional calculus with applications, sequences and series, differentiation and integration of trigonometric functions. Graphing calculators are used throughout the course. If credit has been granted for MA 2510, 2520, 2550 or 2560, consent of Mathematics Chair is required in order to receive credit for either MA 2490 or MA 2500. Springs. *Prerequisite(s)*: MA 2490. (QUAN)(QRCO)

#### **MA2550 Calculus I 4 credits**

A first calculus course concentrating on limits, continuity, the derivative and integration. Applications are made to classical problems in physics and other sciences. Uses a software package capable of doing symbolic mathematics. If credit has been granted for either MA 2490 or 2500, consent of the Mathematics Chair is required in order to receive credit for MA 2550. Students may not receive credit for both MA 2510 and MA 2550. Falls and Springs. *Prerequisite(s)*: MA 2140 or Level 3 on placement test with high school precalculus mathematics. (QUAN)(QRCO)

#### **MA2560 Calculus II 4 credits**

A continuation of the calculus, including further study of integration techniques, improper integrals, infinite series, polar coordinates and conic sections. Uses a software package capable of doing symbolic mathematics. Students may not receive credit for both MA 2520 and MA 2560. Students may not receive credit for both MA 3500 and MA 2560. Students changing from the MA 2510-2520-3500 sequence to the MA 2550-2560 sequence should consult with the Mathematics Department. Students with previous credit for MA 2490-2500 MAY receive credit for MA 2560. Falls and Springs. *Prerequisite(s)*: MA 2550. (QUAN)(QRCO)

#### **MA2600 Math Activities Center Practicum 1 credit**

Students examine recent research relating to the teaching of mathematics which they apply while tutoring students in the Math Activities Center. Weekly meetings are held. Falls and Springs. *Prerequisite(s)*: MA 2490 or MA 2550.

#### **MA2910 Tutorial in Mathematics 1-4 credits**

An individual tutorial usually given in special circumstances for students who are missing selected topics of required courses. Registration is only by individual enrollment, in consultation with and permission of the Chair. Intended only for those situations where a student needs topics, or portions of a course which serve as prerequisite to another course; e.g., transfer students, students affected by catalog changes, etc. Exceptions may be granted by vote of the Department. Repeatable for credit. *Prerequisite(s)*: permission of the instructor.

#### **MA3010 Mathematics in Our World II 4 credits**

An integrated approach to the study of mathematics for those pursuing majors in Childhood Studies or Early Childhood Studies. Through activity-based learning, problem-solving, cooperative learning, the use of technology and communication, students study mathematics foundational to teaching mathematics at the K-8 level including topics from the real number system with an emphasis on the rational numbers, two-dimensional geometry and measurement and selected topics in algebra, probability and statistics. Students are asked to reason inductively, deductively and by using analogies. Students solve problems which require creative thought and not just regurgitation or application of ideas. Falls and Springs. *Prerequisite(s)*: MA 2110. (QUAN)(QRCO)

#### **MA3030 Mathematics Laboratory Activities I 1 credit**

The first of two courses modeling many of the concepts of school mathematics using activities involving Base 10 Blocks, Fraction

Bars, Cuisenaire Rods, Algeblocks, Decimal Squares, Attribute Blocks and paper folding. Other activities explore relationships among problem solving and generalizing patterns, or various number sets and algebra. MA 3030 does not qualify for Mathematics elective above 3000. Falls. *Prerequisite(s)*: Mathematics Foundations.

#### **MA3040 Mathematics Laboratory Activities II 1 credit**

The second of two courses modeling many of the concepts of school mathematics using activities involving Miras, Algeblocks, Geoboards, Tangrams, Calculator-Based Rangers and graphing calculators. Other activities explore functions, e.g., recursion or rate of change, a variety of two and three dimensional geometric concepts, including area and volume measurement, plus some probability and statistics. MA 3040 does not qualify for Mathematics elective above 3000. Springs. *Prerequisite(s)*: Mathematics Foundations.

#### **MA3070 Knowing and Teaching Mathematics 3 credits**

Continues discovering the mathematical concept and pedagogical skills needed to become a successful teacher of mathematics in grades K-6. Actively involved in exploring how children learn mathematics and how to guide them in their learning of mathematics. Discusses content, methods, curriculum, assessment, national and state standards and grade level expectations and appropriate technology use in the classroom. Falls and Springs. *Prerequisite(s)*: MA 3010, completion of Cluster I and full acceptance to the BS Childhood Studies/Teacher Certification option. *Corequisite(s)*: ED 3070, RL 3070 and SE 3070.

#### **MA3080 Introduction to Mathematics Education 2 credits**

Study of mathematics education in the United States, its cultural setting and its nature, role and function in society, including political, historical, philosophical, sociological, economic, ethical, multicultural and other foundation aspects. Includes 20 hours of school-based observation and participation, plus an overview of preservice preparation at the University and certification in New Hampshire. Springs.

#### **MA3110 Logic, Proofs, and Axiomatic Systems 3 credits**

Mathematical logic is introduced and used in developing techniques of writing proofs in mathematical settings, including topics in abstract algebra. Although the variety of settings may vary each semester, stresses proof development and includes mathematical induction and relations. Falls. *Prerequisite(s)*: MA 2550 or MA 2490. (WRIT)(WRCO)



**MA3120 Elements of Linear****Algebra** 3 credits

Introduction to linear algebra including vector spaces, linear transformations, matrices and determinants. Applications to a variety of areas. Springs. *Prerequisite(s)*: MA 2560 (may be concurrent) or MA 2500.

**MA3130 Directed Research in****Mathematics** 1–3 credits

Under the supervision of the Mathematics Department faculty, students assist with on-going faculty research projects. Duties typically include, but are not limited to, data collection and analysis, library research, and other prepublication tasks. May be repeated for a maximum of six credits. Falls and Springs. *Prerequisite(s)*: permission of the supervising faculty and the Department Chair.

**MA3200 Discrete Mathematics** 3 credits

An introduction to Discrete Mathematics including topics in Boolean Algebra, Mathematical Induction, Recursion Relations, Algorithms and Graph Theory. Falls and Springs. *Prerequisite(s)*: MA 2200 or one semester of Calculus.

**MA3230 Geometries** 4 credits

Includes an overview of the foundations and methods of Euclidean and non-Euclidean geometries and their role in Western thought and education. Emphasis is given to concepts, theorems, methods of problem attack, problem solutions and elements of proof. Explores various approaches to geometry from different perspectives. These perspectives include blending coordinate and transformational ideas with conventional synthetic ideas. Ideas involving geometric experimentation are enhanced using technology-based (software and computer graphics) investigations. Students have to do a written project and an oral presentation. Falls. *Prerequisite(s)*: MA 3110 (may be concurrent). (WRIT)(TECO)(WRCO)

**MA3280 Statistics II** 3 credits

Model building using multiple linear regression. Includes applications to categorical data and the analysis of variance. Statistical software is used extensively. Springs. *Prerequisite(s)*: MA 2300 or MA 3500 or CJ/MA 2350. (WRIT)

**MA3400 Time and Money** 3 credits

The relationships between time and money affect each person. Emphasizes problem solving using “real life” situations drawn from the fields of banking, commerce, finance and insurance, while considering the impact of public policy, such as governmental regulation, taxation and retirement planning. Selected topics include compound interest, simple and general annuities, bonds and designing a defined contribution retire-

ment plan. Uses calculators and spreadsheets. Required projects include a major paper. Perspectives integrated: QUAN and TECH. Spring of even years. *Prerequisite(s)*: Mathematics Foundations plus completion of the QUAN and TECH Perspectives; junior status. (INTG)

**MA3410 Numerical Methods Using the Computer** 3 credits

Surveys modern computing methods and introduces students to the potentialities of the computer for solving problems in science, technology and business. Topics include numerical differentiation and integration, systems of linear equations, linear programming and smoothing of data. Course is especially designed for students in Business, Computer Science and Physical Science. Fall of odd years. *Prerequisite(s)*: two semesters of Calculus (second semester may be concurrent) plus knowledge of a programming language, e.g., BASIC or Pascal or FORTRAN. (WRIT)

**MA3460 History of Mathematics** 3 credits

A historical background in the areas of mathematics needed to understand its logical and sequential nature, its contributions to the growth of both Eastern and Western cultures and the development of a global discipline. Spring of even years. *Prerequisite(s)*: two semesters of calculus and either one semester of university level geometry or MA 3120. (WRIT)(GACO)(WRCO)

**MA3500 Probability and Statistics for Scientists** 3 credits

A first course in applied probability and statistics for scientists. Emphasizes developing probability concepts and statistical problem solving skills useful in an array of scientific disciplines, as well as providing a foundation for more advanced study. A standard statistical/mathematical software package is used. Falls and Springs. *Prerequisite(s)*: MA 2490 or MA 2550.

**MA3510 Differential Equations** 3 credits

Basic concepts, techniques of solution and applications of ordinary first and second order differential equations and series solutions. Falls. *Prerequisite(s)*: MA 2500 (with consent of instructor) or MA 2560 or MA 3500 (may be concurrent).

**MA3540 Multivariable Calculus** 4 credits

This is the third course in the calculus sequence. Topics include three-dimensional vectors, directional derivatives and the gradient, and multiple integrals. Students may not receive credit for both MA 3520 and MA 3540. Springs. *Prerequisite(s)*: MA 2560 or MA 3500.

**MA4020 The Cultural and Psychological Aspects of Mathematics****Learning** 3 credits

Focuses on the cultural and psychological aspects of learning mathematics including implications of Piaget’s research, constructivist learning theories, attitudes, teaching exceptional children, brain research and brain hemispheric specialization, mathematics education in foreign countries, mathematics anxiety, tracking, contrasting developmentalists verses behaviorist theories of learning, mathematics assessment, evaluation and selection of curriculum materials. TIMSS results and their implications and how culture influences education. Students spend a minimum of 12 hours in schools observing and working with students and teachers. Perspectives integrated: GLOB, QUAN, SPSY. Springs. *Prerequisite(s)*: (MA 3010 or MA 3110), one Psychology course (may be concurrent), and Teacher Certification majors only. (INTG)(DICO)(INCO)

**MA4030 Mathematics in the Secondary and Middle School** 4 credits

Develops mathematics teaching methods and strategies; methods of reading, writing and study skills in mathematics; daily, unit and yearly planning strategies; and assessment of student learning. Includes simulated classroom teaching and eight full days of school observation and participation. Designed to be followed by Student Teaching in Mathematics (ED 4430 or MA 4960 or MA 4970) to provide students with a full semester’s integrated experience. Falls. *Prerequisite(s)*: (MA 2300 or CJ/MA 2350), a semester of calculus, one Psychology course (may be concurrent), and Teacher Certification majors only.

**MA4140 Algebraic Structures** 3 credits

Designed to study the properties of groups, rings, ideals and fields, and develop selected topics. Spring of even years. *Prerequisite(s)*: MA 3110 and MA 3120 (may be concurrent). (WRIT)(WRCO)

**MA4220 Topics in Mathematics** 3 credits

A topic, such as Topology, Number Theory, Complex Variables, etc., is studied for an entire semester. Course may be repeated for credit, provided a different topic is studied. Spring of odd years. *Prerequisite(s)*: variable, depending on topic selected; consult course instructor.

**MA4310 Quantitative Methods with Business Applications** 3 credits

Selected methods using mathematics drawn from algebra, graphing, matrix algebra, probability and statistics applied to business situations, such as various types of decision-making strategies, monetary payoffs, purchasing, transportation, inventory control and queuing models. Fall of even years.



*Prerequisite(s)*: (MA 2300 or MA 3500 or CJ/MA 2350) and two semesters of calculus.

**MA4350 Probability Theory 3 credits**  
Topics in probability theory such as probability spaces, random variables, multivariate distributions and the algebra of expectations as a mathematical foundation for statistical inference. Springs. *Prerequisite(s)*: (MA 2300 or MA 3500 or CJ/MA 2350) and MA 3540.

**MA4420 Numerical Analysis Using the Computer 3 credits**  
Covers standard topics in numerical analysis making use of the computer for extensive arithmetic operations. Introduces the student to BASIC, which is then used throughout the course in finding Taylor's series with error estimates, numerical solutions of ordinary and partial differential equations, interpolating polynomials and other topics. Spring of odd years. *Prerequisite(s)*: (MA 2560 or MA 3500), plus knowledge of a programming language, e.g., BASIC or Pascal or FORTRAN.

**MA4450 Seminar in Applied Mathematics 3 credits**  
An interdisciplinary course designed to show how mathematics can be applied to problems of the world in which we live. Fall of odd years. *Prerequisite(s)*: variable, depending on theme selected; consult course instructor.

**MA4510 Advanced Calculus I 3 credits**  
A rigorous treatment of classical topics in calculus including: Completeness Axiom, Heine-Borel Theorem, differentiability and/or integrability of functions. Falls. *Prerequisite(s)*: MA 3110, MA 3120 and MA 3540.

**MA4520 Advanced Calculus II 3 credits**  
A continuation of MA 4510 with more emphasis on the multidimensional concepts. Spring of even years. *Prerequisite(s)*: MA 4510.

**MA4560 Advanced Mathematics Problem Solving 3 credits**  
Addresses the necessary techniques pertaining to the first two parts of the associateship examination of the Society of Actuaries. Encounters appropriate topics from analysis, linear algebra, probability and statistics. Fall of even years. *Prerequisite(s)*: MA 4350 and MA 4510 (may be concurrent).

**MA4600 Internship in the Mathematical Sciences 1-6 credits**  
Student interns are sponsored by an organization whose activities require knowledge of mathematics (or mathematics education). Student interns should be placed in positions that require them to familiarize themselves with the uses made of mathematics by the organization. The mathematics that interns apply to the performance of their duties should be based on materials covered in the students' coursework, represent an extension

of such material or require the students to learn new mathematics if necessary to their duties. The intern must arrange for a faculty sponsor. An Internship Review Committee, chaired by the faculty sponsor with two additional members elected by departmental vote, shall, with the students' input: review the details of the prospective internship and decide on its feasibility, decide the number of credits to be awarded and prescribe an appropriate form and forum for a final report of internship activities. All arrangements must be approved by the Department Chair. Graded Pass/No Pass. *Prerequisite(s)*: permission of the Department Chair.

**MA4910 Independent Study 1-4 credits**  
An individual study project determined to be of value to students and the Mathematics Department. Students present a talk concerning some portion of their study to a departmental colloquium during the semester. Consent required of the instructor who will supervise the independent study and the Department Chair.

**MA4960 Mathematics Student Teaching (7-12) 10 credits**  
The culminating field-based experience leading to teacher certification. It is a continuous, full-time (five days per week) experience of 10 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls. *Prerequisite(s)*: Math majors only; minimum 2.50 cumulative GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: MA 4030.

**MA4970 Mathematics Student Teaching (5-8) 10 credits**  
The culminating field-based experience leading to teacher certification. It is a continuous, full-time (five days per week) experience of 10 credits during which, after a period of structured observation, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls. *Prerequisite(s)*: Math majors only; minimum 2.50 cumulative

GPA; completion of all other program requirements for certification by the beginning of the student teaching semester; permission of the Coordinator of Teacher Certification and Clinical Experiences. *Corequisite(s)*: MA 4030.

## ME—Music Education

**ME1010 Introduction to Music Education 3 credits**  
Required for first semester, first year students majoring in music education. Provides an examination of the responsibilities and requisite skills of the professional music educator. Topics include pre-service teacher preparation at PSU, societal issues affecting public education in general and music education in particular, an historical review of music in American public education, school finance, school law, organization of instruction, and the study of educational philosophies and learning styles. Students initiate the development of a professional electronic portfolio. Requires a 10 hour observation/participation in the public schools. Falls.

**ME1160 Guitar Class I 1 credit**  
Development of basic performance skills on guitar, including functional accompanying in folk and popular styles. Falls and Springs. *Prerequisite(s)*: students must provide their own instruments. (ARTS)

**ME1200 Voice Class I 1 credit**  
Fundamentals of voice production: posture, breath control, tone, diction, interpretation; emphasis on group and solo performance. Falls and Springs. (ARTS)

**ME2000 Guitar Class II 1 credit**  
Continuation of development of Guitar Class I skills; introduction to ensemble playing. Falls and Springs. *Prerequisite(s)*: students must provide their own instruments. (ARTS)

**ME2030 Music and Movement Skills for Classroom Teachers 3 credits**  
Basic music and movement skills for integration into the elementary and middle school (K-8) classroom: introductory autoharp, piano, recorder and guitar skills plus selected multicultural song repertoire—seasonal, patriotic and American folk songs. A variety of eurhythmic activities including creative movement, fingerplay, folk dances and multicultural games also incorporated.

**ME2060 Keyboard Proficiency: Music Education 0 credit**  
Keyboard proficiency is demonstrated by passing the Keyboard Proficiency examination, which is required of all students enrolled in the Music Education degree program. The specific skills which must be successfully demonstrated are detailed in the

"Music Student Handbook." The Keyboard Proficiency Examination must be taken no later than the third semester of study. It must be passed successfully before a student teaching assignment may be arranged. Pass/No Pass. Last offering Spring 2011.

**ME2110 Techniques of the Marching Band .5 credit**

Styles and techniques of marching band performance, including pedagogical methods. Fall of even years.

**ME2130 Piano Class III 1 credit**  
Continuation of skills developed in MU 1160. Falls. *Prerequisite(s)*: MU 1160 with a minimum grade of C; open only to BA Music and BS Music Education majors.

**ME2140 Piano Class IV 1 credit**  
Continuation of skills developed in ME 2130. Springs. *Prerequisite(s)*: ME 2130 with a minimum grade of C; open only to BA Music and BS Music Education majors.

**ME2150 String Class 1 credit**  
Basic performance skills and teaching techniques for violin, viola, cello and double bass. Falls. *Prerequisite(s)*: open only to BS Music Education majors.

**ME2170 Flute Class .5 credit**  
Basic performance skills and teaching techniques for flute. Last offering Fall 2009. *Prerequisite(s)*: open only to BS Music Education majors.

**ME2180 Saxophone Class .5 credit**  
Basic performance skills and teaching techniques for saxophone. Last offering Spring 2010. *Prerequisite(s)*: open only to BS Music Education majors.

**ME2190 Clarinet Class .5 credit**  
Basic performance skills and teaching techniques for clarinet. Last offering Fall 2009. *Prerequisite(s)*: open only to BS Music Education majors.

**ME2200 Oboe/Bassoon Class .5 credit**  
Basic performance skills and teaching techniques for oboe and bassoon. Last offering Spring 2010. *Prerequisite(s)*: open only to BS Music Education majors.

**ME2210 Voice Class II/Pedagogy 1 credit**  
Continuation of development of skills of Voice Class I with emphasis on voice pedagogy. Emphasis on solo and group performance and evaluation. Last offering Spring 2011. *Prerequisite(s)*: ME 1200. (ARTS)

**ME2340 Music Teaching Apprenticeship 1 credit**  
Supervised field experience prior to formal student teaching in which the student is involved in the music classroom and rehearsal for a

minimum of two hours per week for a period of ten weeks. With permission. *Prerequisite(s)*: open only to Music Education majors.

**ME3110 Elementary School Music Methods 3 credits**  
Basic procedures, methods and materials for teaching music in grades K–6. Includes demonstration, observation and simulation of teaching at this level. Springs. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3130 Woodwinds I 1 credit**  
Basic performance skills and teaching techniques for flute and clarinet. Falls. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3140 Woodwinds II 1 credit**  
Basic performance skills and teaching techniques for saxophone, oboe, and bassoon. Springs. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3160 Percussion Class 1 credit**  
Basic performance skills and teaching techniques for selected percussion instruments. Springs. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3210 Upper Brass Techniques 1 credit**  
Basic performance skills and teaching techniques for trumpet and French horn. Falls. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3220 Lower Brass Techniques 1 credit**  
Basic performance skills and teaching techniques for trombone, baritone horn and tuba. Springs. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3250 Choral Conducting 2 credits**  
Preparation and interpretation of choral scores for rehearsals and performances. Fall of even years. *Prerequisite(s)*: MU 2260; open only to BA Music and BS Music Education majors and Music minors.

**ME3260 Instrumental Conducting 2 credits**  
Preparation and interpretation of instrumental scores for rehearsals and performances. Fall of odd years. *Prerequisite(s)*: MU 2260; open only to BA Music and BS Music Education majors and Music minors.

**ME3340 Choral Literature and Techniques 2 credits**  
Organization and development of choral ensembles: recruitment, auditions, voice classifications, etc. Survey of choral repertoire appropriate for wide variety of choral groups. Fall of odd years. *Prerequisite(s)*: open only to BA Music and BS Music Education majors and Music minors.

**ME3350 Instrumental Literature and Techniques 2 credits**  
Organization and development of instrumental ensembles: recruitment, scheduling, instructional materials, etc. Survey of solo and ensemble literature and individual methods. Springs. *Prerequisite(s)*: open only to BS Music Education majors.

**ME3500 Technology for Music Educators 3 credits**  
Examines the history and evolution of music technology in music education and how it impacts music curriculum development, music education, culture and society. Explores music education, music administration, music notation and music sequencing software, MIDI (Musical Instrument Digital Interface) techniques, synthesis, programs and equipment that support MIDI and music notation for the music educator. Students acquire proficiency in MIDI technology and demonstrate that proficiency by designing a curriculum that integrates music technology into the music classroom. Students also turn in a music notation project. Falls. *Prerequisite(s)*: BS Music Education majors only. (TECH)(TECO)

**ME4200 Secondary School Music Methods 3 credits**  
Basic procedures, methods and materials for teaching music in grades 7–12. Special emphasis on upper middle school general music. Includes demonstrations, observation and simulation of teaching at this level. Falls. *Prerequisite(s)*: open only to BS Music Education majors.

**ME4500 Senior Recital: Music Education 0 credit**  
Music Education majors are required to enroll in ME 4500 and to present a full recital program. This requirement may also be satisfied by sharing a recital with another student. A pre-recital jury before the faculty is required at least four weeks prior to the scheduled recital date. Pass/No Pass. Falls and Springs. *Corequisite(s)*: 4000 level Performance Studies.

**ME4850 Kindergarten Through Grade 12 Student Teaching 12 credits**  
The culminating field-based experience for Music Education majors, leading to teacher certification. It is a continuous, full-time experience during which students gradually assume responsibilities for a full range of music teaching activities. Student teaching is conducted under the guidance of cooperating teachers and clinical faculty (University appointed observers). Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.5 cumulative GPA; minimum grade of C in ME 3110 and ME 4200; minimum 2.7 composite GPA

[calculated from ME 1010, ME 1200, ME 2130, ME 2140, ME 2150, ME 3110, ME 3130, ME 3140, ME 3160, ME 3210, ME 3220, (ME 3250 or ME 3260), (ME 3340 or ME 3350), ME 3500, ME 4200, MU 1150, MU 1160, MU 1210, MU 1220, MU 2210, MU 2220, MU 2260, MU 3250, MU 3310, MU 3320; Music Education Voice majors only, exclude ME 1200 and add MU 4280; Music Education Piano majors only, exclude MU 1150, MU 1160 and add MU 3070 and MU 3080]; completion of all other program requirements for certification in Music Education; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ME4860 Student Teaching K-12:  
Elementary Component 6 credits**

The culminating field-based experience for Music Education majors, leading to teacher certification. It is a continuous, full-time experience during which students gradually assume responsibilities for a full range of music teaching activities. Student teaching is conducted under the guidance of cooperating teachers and clinical faculty (University appointed observers). Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.5 cumulative GPA; minimum grade of C in ME 3110 and ME 4200; minimum 2.7 composite GPA [calculated from ME 1010, ME 1200, ME 2130, ME 2140, ME 2150, ME 3110, ME 3130, ME 3140, ME 3160, ME 3210, ME 3220, (ME 3250 or ME 3260), (ME 3340 or ME 3350), ME 3500, ME 4200, MU 1150, MU 1160, MU 1210, MU 1220, MU 2210, MU 2220, MU 2260, MU 3250, MU 3310, MU 3320; Music Education Voice majors only, exclude ME 1200 and add MU 4280; Music Education Piano majors only, exclude MU 1150, MU 1160 and add MU 3070 and MU 3080]; completion of all other program requirements for certification in Music Education; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ME4870 Student Teaching K-12:  
Secondary Component 6 credits**

The culminating field-based experience for Music Education majors, leading to teacher certification. It is a continuous, full-time experience during which students gradually assume responsibilities for a full range of music teaching activities. Student teaching is conducted under the guidance of cooperating teachers and clinical faculty (University appointed observers). Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.5 cumulative GPA; minimum grade of C in ME 3110 and ME 4200; minimum 2.7 composite GPA [calculated from ME 1010, ME 1200, ME 2130, ME 2140, ME 2150, ME 3110, ME 3130, ME 3140, ME 3160, ME 3210, ME 3220, (ME 3250 or ME 3260), (ME 3340 or ME 3350), ME 3500, ME 4200, MU 1150, MU 1160, MU

1210, MU 1220, MU 2210, MU 2220, MU 2260, MU 3250, MU 3310, MU 3320; Music Education Voice majors only, exclude ME 1200 and add MU 4280; Music Education Piano majors only, exclude MU 1150, MU 1160 and add MU 3070 and MU 3080]; completion of all other program requirements for certification in Music Education; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**ME4910 Independent Study 1-3 credits**  
Advanced work in specialized area of interest, selected and pursued in consultation with a faculty advisor. Consent required of the instructor who will supervise the independent study and the Department Chair.

## MT-Meteorology

**MTDI1100 Weather 3 credits**

Basic atmospheric physical processes are investigated in order to gain a deeper scientific understanding of weather phenomena and to explore atmospheric environmental issues such as: the Antarctic ozone hole, global climate change and air pollution. Topics include: structure and composition of the atmosphere, radiation and energy transfer, temperature, moisture, clouds and precipitation, thunderstorms, global circulations, the jet stream, mid-latitude cyclones, tornadoes, hurricanes, global climate change and air pollution. Students who have completed MT 2110 cannot take this course. Falls and Springs. *Corequisite(s)*: MTDI 1110. (SCIE) (SIDI)

**MTDI1110 Weather Laboratory 1 credit**

The skills and methods of scientific inquiry for basic atmospheric processes are explored through a series of directed and inquiry based laboratory exercises. These exercises include: use of meteorological instrumentation to analyze and interpret some in situ atmospheric measurements and use of technology for accessing, analyzing and interpreting remotely sensed weather data. Laboratory exercises generally complement the material in MTDI 1100. Falls and Springs. *Corequisite(s)*: MTDI 1100. (SLAB)(SIDI)

**MTDI1500 Severe and Hazardous  
Weather 3 credits**

Addresses various scientific inquiry skills by analyzing the world's most extreme weather events in terms of their scientific basis and their economic, human and historical consequences. Topics include hurricanes, tornadoes, blizzards, cold waves, heat waves, floods, droughts, major air pollution events and others. Falls and Springs. (SCIE)(SIDI)

**MT2110 Introduction to  
Meteorology 3 credits**

Fundamental description of atmospheric processes and phenomena. The global energy

budget, winds, air masses, fronts, clouds, snow, rain and hail, thunderstorms, tornadoes and hurricanes are among the topics covered. Falls. *Prerequisite(s)*: Science and Geography majors. *Corequisite(s)*: MT 2230.

**MT2230 Introduction to Meteorological  
Analysis 1 credit**

An introduction to basic analytical methods used in meteorology (e.g., surface and upper-air maps and thermodynamic charts). Supportive laboratory exercises are also included. Falls. *Corequisite(s)*: MT 2110.

**MT2800 Climatology 3 credits**

A descriptive climatology course covering the three main areas of climatological study: physical climatology, regional climatology and applied climatology. Topics include: physical processes responsible for climate; major climate regions and climate classifications; the effect of climate on human cultures and societies; and theories of climate change including natural and anthropogenic processes. Springs. *Prerequisite(s)*: MT 2110. (GACO)

**MT3250 Atmospheric  
Thermodynamics 4 credits**

Development of kinetic theory of gases. Treatment of the First and Second Laws of Thermodynamics with emphasis on atmospheric applications. Adiabatic processes, stability and the use of thermodynamic diagrams. Severe weather indices. Springs. *Prerequisite(s)*: (MTDI 1100 or MT 2110), MA 2550 and PH 2410.

**MT3300 Synoptic Meteorology I 4 credits**

An introduction to the techniques used to understand synoptic-scale atmospheric processes and their application to weather analysis and forecasting. Topics include: decoding and plotting standard meteorological data; plotting and interpretation of thermodynamic diagrams and cross-section analyses; manual analyses of upper-air and surface data; survey of weather graphics products from both facsimile and Internet resources; kinematics of meteorological scalar and vector fields; introduction to basic forecasting techniques; a survey of operational forecast models. Falls. *Prerequisite(s)*: MA 2550 (may be concurrent) and MT 2110.

**MT3710 Meteorological Instruments  
and Observations 4 credits**

Utilization of standard meteorological instruments. Practical problems in measure and recording systems. Data reduction and analysis. Introduction to the PC-McIDAS programming language. Experimental meteorological literature. One lecture and one laboratory session each week plus individual writing assignments. Falls. *Prerequisite(s)*: MT 2110 and MA 2550 (may be concurrent). (WRIT)(WRCO)

**MT4110 Air Quality 3 credits**

An extensive view of the science of Air Quality. Main topics include: atmospheric chemistry, air quality meteorology and forecasting techniques, air pollution sources, sinks and effects (atmospheric, environmental). Also examines historical and current policy issues. May be taken as CH 4110. Springs. *Prerequisite(s)*: CH 2140, MT 2110, and (MA 2490 or MA 2550).

**MT4300 Synoptic Meteorology II 4 credits**

Intermediate weather analysis and forecasting techniques are used to understand synoptic-scale weather systems with an emphasis on structure and evolution of extratropical cyclones. Topics include: climatology of mid-latitude surface and upper-air flow regimes and extratropical cyclogenesis; life cycle of extratropical cyclones including frontal evolutions; application of hydrodynamical equations and balanced systems to weather analysis and forecasting; ageostrophic winds; jet streak circulations. Students participate in weekly forecasting exercises culminating in a quantitative precipitation forecasting exercise at the end of the semester. Springs. *Prerequisite(s)*: MT 3300. *Corequisite(s)*: MT 4320.

**MT4310 Dynamic Meteorology I 3 credits**

Introduction to geophysical fluid dynamics including the development of the fundamental equations, governing atmospheric motion, basic approximations, simplified flows and physical interpretation of the corresponding theory. Falls. *Prerequisite(s)*: MA 2560, MT 3250 and PH 2420.

**MT4320 Dynamic Meteorology II 3 credits**

Advanced topics in geophysical fluid dynamics including circulation theory, vorticity, planetary boundary layer, quasi-geostrophic theory and introductory numerical modeling concepts. Springs. *Prerequisite(s)*: MT 4310 and MA 3540 (may be concurrent).

**MT4330 Current Weather Seminar 1 credit**

Discussions of daily weather maps and data from the National Meteorological Center. Technical emphasis; presentations by faculty and students. May be repeated once. Occasionally. *Prerequisite(s)*: MT 4300 (may be concurrent).

**MT4340 Forecasting/Multimedia Practicum 1 credit**

Provides students an opportunity to improve forecasting, computer software and communication skills while formally meeting forecast deadlines on a daily basis. Forecasts are prepared and presented in several different media including electronic media such as web pages and phone recordings. May be repeated for a maximum of two credits. *Prerequisite(s)*: MT 4300 (may be concurrent); permission of the instructor.

**MT4350 Forecasting/Radio Practicum 1 credit**

Provides students an opportunity to improve forecasting and communication skills while formally meeting forecast deadlines on a daily basis. Forecasts are prepared and presented on radio and/or podcast. May be repeated for a maximum of two credits. *Prerequisite(s)*: MT 4300 (may be concurrent); permission of the instructor.

**MT4360 Forecasting/Television Practicum 1 credit**

Provides students an opportunity to improve forecasting and communication skills while formally meeting forecast deadlines on a daily basis. Forecasts are prepared and presented on television. May be repeated for a maximum of two credits. *Prerequisite(s)*: MT 4300 (may be concurrent); permission of the instructor.

**MT4410 Atmospheric Physics 3 credits**

An application of the basic laws of physics to atmospheric processes. Topics discussed include gravitational effects, properties of atmospheric gases, cloud physics, solar and terrestrial radiation, atmospheric electricity and optical and acoustic phenomena. Falls. *Prerequisite(s)*: MA 2560, MT 3250 and PH 2420.

**MT4430 Climate Change 3 credits**

Overview of the methods for examining climate change. Included are time series analysis and climate proxies such as tree-ring analysis,  $^{18}\text{O}/^{16}\text{O}$  ratios, pollen and carbon-14 dating. Also covered are a variety of possible causal factors such as orbital variations, plate tectonics, volcanic eruptions,  $\text{CO}_2$  variations and El Nino. The results of paleoclimatic modeling are also discussed. Spring of odd years. *Prerequisite(s)*: MT 2110, (PH 2130 or PH 2410), and (MA 2490 or MA 2550).

**MT4450 Advanced Synoptic Meteorology 3 credits**

Use of advanced analysis techniques for multiscale weather systems throughout the globe with an emphasis on synoptic-scale mid-latitude weather. Topics include: forecasting applications of the quasi-geostrophic height tendency and omega equations; frontogenesis; Q-vector analysis; isentropic analysis; Hovmöller diagrams, potential vorticity concepts and the use of dynamic tropopause maps. Weekly weather discussions and forecasting exercises focus on these advanced techniques and areas of current or future applied research topics. Recent articles in the scientific literature are reviewed and used throughout the course. Falls. *Prerequisite(s)*: MT 4300 and MT 4320.

**MT4470 Micrometeorology 3 credits**

Study of processes involving the exchange of momentum, heat and moisture between

the lowest portion of the atmosphere and the underlying surface of the earth. Topics such as local energy budgets, soil heat transfer, the planetary boundary layer, turbulence, neutral and diabatic surface layers are included. Spring of even years. *Prerequisite(s)*: MT 4320.

**MT4510 Senior Research 2 credits**

Devoted to an investigation of a specific meteorological problem chosen by students and approved by the faculty member directing the research. Research topics may be chosen from any area of theoretical, applied or operational meteorology. A research summary (both a written report and an oral seminar) is required. Falls. *Prerequisite(s)*: Meteorology major with senior standing.

**MT4520 Senior Research 2 credits**

Devoted to an investigation of a specific meteorological problem chosen by students and approved by the faculty member directing the research. Research topics may be chosen from any area of theoretical, applied or operational meteorology. A research summary (both a written report and an oral seminar) is required. Springs. *Prerequisite(s)*: Meteorology major with senior standing.

**MT4550 Topics 3 credits**

A rotating series of courses relating to major subdisciplines of meteorology. Topics include mesometeorology, tropical meteorology and numerical weather prediction. May be repeated so that students can receive exposure to a variety of subject areas not covered in depth in the primary curriculum. Occasionally. *Prerequisite(s)*: MT 3300, MT 4310 and permission of the instructor.

**MT4600 Internship 1-4 credits**

Involves 1-4 weeks of full-time work at a private or governmental forecast office or weather observatory. The on-site experience is provided to give students an opportunity to become more familiar with weather service equipment and forecasting procedures and to participate in daily weather observations and discussions. Compensation is not necessarily provided for intern time. One credit is given for each 40-hour week of participation. Meteorology majors may seek permission of the instructor if they have not taken the stated prerequisites. With permission. *Prerequisite(s)*: MT 3300, MT 4310 and Meteorology major.

**MT4910 Independent Study 1-4 credits**

Ordinarily for Meteorology majors. Studies undertaken are defined by students, subject to approval by appropriate staff members. Work may involve reading, conferences, historical, experimental or theoretical projects, field investigations, statistical surveys or combinations of the foregoing. Consent required of the instructor who will supervise the independent study and the Department Chair.



## MU—Music

### MU Performance Studies 1–2 credits

Instrumental and vocal instruction. Individual and/or group study to promote development of techniques, repertoire, and musicianship. Required attendance at Department recitals. Each course may be repeated. Courses with odd numbered tens digits are one credit and courses with even numbered tens digits are two credits. Enrollment in Performance Studies requires payment of a Performance Studies fee. Falls and Springs. Course numbers are as follows:

1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR
<b>Voice *</b>			
1510-1520	2510-2520	3510-3520	4510-4520
<b>Piano*</b>			
1530-1540	2530-2540	3530-3540	4530-4540
<b>Organ</b>			
1550-1560	2550-2560	3550-3560	4550-4560
<b>Harpsichord</b>			
1570-1580	2570-2580	3570-3580	4570-4580
<b>Percussion</b>			
1590-1600	2590-2600	3590-3600	4590-4600
<b>Violin</b>			
1610-1620	2610-2620	3610-3620	4610-4620
<b>Viola</b>			
1630-1640	2630-2640	3630-3640	4630-4640
<b>Cello</b>			
1650-1660	2650-2660	3650-3660	4650-4660
<b>Bass</b>			
1670-1680	2670-2680	3670-3680	4670-4680
<b>Guitar</b>			
1690-1700	2690-2700	3690-3700	4690-4700
<b>Lute</b>			
1710-1720	2710-2720	3710-3720	4710-4720
<b>Flute</b>			
1730-1740	2730-2740	3730-3740	4730-4740
<b>Oboe</b>			
1750-1760	2750-2760	3750-3760	4750-4760
<b>Clarinet</b>			
1770-1780	2770-2780	3770-3780	4770-4780
<b>Bassoon</b>			
1790-1800	2790-2800	3790-3800	4790-4800
<b>Saxophone</b>			
1810-1820	2810-2820	3810-3820	4810-4820
<b>Trumpet</b>			
1830-1840	2820-2840	3830-3840	4830-4840
<b>Horn</b>			
1850-1860	2850-2860	3850-3860	4850-4860
<b>Euphonium</b>			
1870-1880	2870-2880	3870-3880	4870-4880
<b>Trombone</b>			
1890-1900	2890-2900	3950-3900	4890-4900
<b>Tuba</b>			
1950-1960	2950-2960	3950-3960	4950-4960

\* Corequisite required.

### MUD1000 Jazz Styles: Past and Present 3 credits

Examines historical and current styles of jazz encompassing forms, aesthetics, personalities, literature, the evolution of jazz music, and the influence jazz music has on the development of traditional art music and popular music in America. Places emphasis on the development of listening skills through consideration of jazz literature from the past to the present day. Falls and Springs. (PPDI)

### MU1130 Beginning Piano I 1 credit

For students with little or no previous study. Basic knowledge and skills necessary for keyboard performance. Development of physical and mental facility in interpreting musical notation. Falls and Springs. (ARTS)

### MU1140 Beginning Piano II 1 credit

For students with little or no previous study. Basic knowledge and skills necessary for keyboard performance. Development of physical and mental facility in interpreting musical notation. Falls and Springs. *Prerequisite(s)*: MU 1130. (ARTS)

### MU1150 Piano Class I 1 credit

Preparation of music specialists with functional skills in harmonization, solo performance and accompanying. Falls. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors.

### MU1160 Piano Class II 1 credit

Preparation of music specialists with functional skills in harmonization, solo performance and accompanying. Springs. *Prerequisite(s)*: MU 1150 with a minimum grade of C; open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors.

### MU1210 Musicianship I 4 credits

Review of basic materials of music notation, meter, keys, scales. Basic principles of diatonic harmony, including interval and chord construction, melody writing and voice leading, chord progression. Harmonic analysis of related examples. Emphasis on ear training and sight-singing skills. Falls. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors.

### MU1220 Musicianship II 4 credits

Continuation of studies in diatonic harmony, voice leading and harmonic analysis, including triads in inversion, non-chord tones and seventh chords. Introduction to principles of formal analysis. Continuing emphasis on aural skills. Springs. *Prerequisite(s)*: MU 1210 with a minimum grade of C.

### MUD11310 Exploring Music 3 credits

Emphasis is placed on the development of listening skills through consideration of masterworks of "classical" music literature from the past to the present day. Historical periods studied include Medieval, Renaissance, Baroque, Classical, Romantic, Impressionistic, 20th Century and Contemporary. Falls and Springs. (ARTS)(PPDI)

### MU1320 Introduction to Reading Music 3 credits

Introduces students to standard melodic and chordal music notation, and those skills and concepts necessary to interpret and perform them - pitch, rhythm, meter, scales, keys, intervals and chords. Springs. (ARTS)

### MUD1350 American Popular Music: History and Creation 3 credits

Emphasizes an interdisciplinary approach that incorporates contemporary multicultural perspectives and critical creative and social analysis into the study of American popular music. Investigates a 200-year musical and cultural history in America that includes African American Roots, European American Traditions and Influences, Latin Music in America and Native American and Asian Influences. Students also explore American popular music content, form, lyrics and instrumentation so that they may create and develop their own musical compositions using current music sequencing and recording software. Falls. (CTDI)

### MU1420 Vocal Performance Lab I 0 credit

Italian and English diction using the International Phonetic Alphabet, stage deportment and beginning song interpretation/presentation. Required of all voice students enrolled in 1000 level Performance Studies. Falls and Springs. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors. *Corequisite(s)*: 1000 level Voice Performance Studies.

### MU1480 Jazz Workshop 1 credit

Provides an opportunity to study jazz improvisation, harmony and performance practice through examination of the history of jazz, the study of recordings and transcriptions of improvised solos. Aspects of music theory specific to the jazz idiom are explored, as are specific improvisational techniques. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

### MU1510 Voice Performance Studies 1 credit

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance



Studies fee. Falls and Springs. *Corequisite(s)*: MU 1420.

**MU1520 Voice Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors. *Corequisite(s)*: MU 1420.

**MU1540 Piano Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: open only to BA Music and BS Music Education majors and Music minors. *Corequisite(s)*: MU 2140.

**MU2000 Diction for Singers 2 credits**

Designed for the voice major with at least one experience in which diction is taught specifically as it relates to singing. Students learn the International Phonetic Alphabet as well as basic pronunciation and transcription of the five major languages for singing. Spring of odd years. *Prerequisite(s)*: enrollment as a voice major in the Music, Theatre, and Dance Department.

**MU2080 Guitar Workshop 1 credit**

Provides guitarists opportunities to perform solo and ensemble literature in groups of 2–10 players. Guitar literature (duets, trios, quartets, etc.) from written scores is rehearsed for public performance, on and off campus. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

**MU2100 Keyboard Accompanying .5 credit**

Performance ensemble open to all keyboard students wishing to perform as accompanists in the studio and in recital. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructors involved.

**MU2130 Beginning Piano III 1 credit**

Continuing development of skills formed in Beginning Piano II. Emphasis is on solo performance, technique and theory. Falls and Springs. *Prerequisite(s)*: MU 1140. (ARTS)

**MU2140 Piano Performance Lab 0 credit**

To build repertoire through listening and analysis skills, to achieve techniques of interpretation through self-evaluation and group interaction and to develop stage deportment and performance skills. Each student

performs regularly to advance these skills. Required of all piano students enrolled in 1000, 2000, 3000 and 4000 level Piano Performance Studies. Falls and Springs. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors. *Corequisite(s)*: 1000, 2000, 3000 and 4000 level Piano Performance Studies.

**MU2170 Keyboard Proficiency: Voice Performance 0 credit**

Keyboard proficiency is demonstrated by passing the Keyboard Proficiency Examination. The specific skills which must be successfully demonstrated are detailed in the “Music Student Handbook.” The Keyboard Proficiency examination must be taken no later than the fifth semester of study. It must be passed successfully before the degree can be awarded. Pass/No Pass. Last offering Spring 2011.

**MU2180 Keyboard Proficiency: Music Theatre Performance 0 credit**

Keyboard proficiency is demonstrated by passing the Keyboard Proficiency Examination. The specific skills which must be successfully demonstrated are detailed in the “Music Student Handbook.” The Keyboard Proficiency Examination must be taken no later than in December of the junior year. It must be passed successfully before the degree can be awarded. Pass/No Pass. Last offering Spring 2011.

**MU2210 Musicianship III 3 credits**

Principles of chromatic harmony, including secondary functions, modulation, mode mixture and the Neapolitan chord, explored through voice leading, analysis and composition assignments. Introduction to formal analysis of larger structures. Continuing development of ear training and sight-singing skills. Falls. *Prerequisite(s)*: MU 1220 with a minimum grade of C.

**MU2220 Musicianship IV 3 credits**

Further exploration of chromatic harmony, including augmented sixth chords, enharmonic respellings, altered chords and techniques of musical Impressionism. Introduction to 20th- and 21st-century compositional techniques. Continuing development of aural skills. Springs. *Prerequisite(s)*: MU 2210 with a minimum grade of C.

**MU2260 Basic Conducting 2 credits**

Development of basic skills of conducting: patterns, rhythmic and metric analysis, phrasing, expressive techniques, score reading, elemental rehearsal skills. Springs. *Prerequisite(s)*: open only to BA Music and BS Music Education majors and Music minors.

**MU2310 Introduction to Jazz 3 credits**

A non-technical survey encompassing styles, forms, aesthetics, personalities, literature and evolution of jazz music. Influence upon traditional art music and popular music. Emphasis on listening to representative styles. Falls and Springs. (ARTS)

**MU2370 The Music Theatre Company 1 credit**

The Music Theatre Company is a performing ensemble that specializes in the music theatre repertoire: Broadway-style musicals, revues, operettas and operas. A show is produced in each regular semester. Students may receive credit for participation as a performer, a designer, or a member of the technical staff. Any Plymouth student may audition for roles and ensembles. Falls and Springs. (ARTS)

**MU2380 Chamber Singers 1 credit**

A vocal chamber ensemble for the study and performance of choral literature of all styles and periods. Open to all students by audition. Numerous performances both on and off-campus, including regional and international tours (generally occurring following spring semester). Enrollment for both fall and spring semesters is generally required. Course fee for annual tour may apply. May be repeated for credit. Falls and Springs.

**MU2410 Piano Ensemble 1 credit**

Study and performance of piano ensemble literature from the 18th–21st centuries. Designed to develop ensemble skills and to present public performances. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: ME 2140, enrolled in Performance Studies.

**MU2420 Symphonic Band 1 credit**

Performance ensemble open to all students by audition. Symphonic Band is designed to develop ensemble performance techniques and individual performance skills and to give public performances both on and off-campus. May be repeated for credit. Falls and Springs. (ARTS)

**MU2430 Percussion Ensemble 1 credit**

An ensemble of 4–10 players open to all students by permission of the instructor. May be repeated for credit. Falls and Springs.

**MU2440 University Chorale 1 credit**

Performance ensemble open to all students. The University Chorale performs choral literature of all styles and periods. Numerous on- and off-campus performances are scheduled. May be repeated for credit. Falls and Springs. (ARTS)

**MU2480 Jazz Band 1 credit**

Performance ensemble open to all students by audition. Jazz Band serves to broaden the student’s perspective of swing, jazz and jazz rock through study and performance, both on

and off-campus. May be repeated for credit. Falls and Springs. (ARTS)

### **MU2490 Pemigewasset Choral**

**Society 1 credit**

Performance ensemble open to all undergraduate and graduate students; no audition required. The Pemi Choral Society is a large regional singing society performing appropriate choral literature from all historical styles and periods, including major and minor works. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: permission of the instructor.

### **MU2500 Chamber Players 1 credit**

Performance ensemble open to all instrumental and vocal students wishing to perform ensemble literature. May be repeated for credit. Falls and Springs.

### **MU2510 Voice Performance Studies 1 credit**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 1520. *Corequisite(s)*: MU 3420.

### **MU2520 Voice Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 1520. *Corequisite(s)*: MU 3420.

### **MU2540 Piano Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 1540; open only to BA Music and BS Music Education majors and Music minors. *Corequisite(s)*: MU 2140.

### **MU3010 Junior Recital .5 credit**

Students in the Piano and Voice Performance and Pedagogy Options are required to enroll in MU 3010 and to present a public recital in one of the semesters of 3000 level Performance Studies. This is generally one-half of a program (or approximately 30 minutes) but, with the permission of the Performance Studies instructor, students may present a full solo program at this level of study. A pre-recital jury before the faculty is required at least

four weeks prior to the scheduled recital date. Falls and Springs. *Corequisite(s)*: 3000 level Performance Studies.

### **MU3070 Piano Pedagogy I 2 credits**

Methods and materials for use with beginning piano students in the independent studio. Supervised teaching experience included. *Prerequisite(s)*: Keyboard majors and others by permission of the instructor.

### **MU3080 Piano Pedagogy II 2 credits**

Methods and materials for use with intermediate piano students in the independent studio. Supervised teaching experience included. *Prerequisite(s)*: Keyboard majors and others by permission of the instructor.

### **MU3170 Musical Theatre Singing Techniques 2 credits**

See TH 3170 for course description. Unscheduled. *Prerequisite(s)*: permission of the instructor.

### **MU3200 Technology in Music Performance 3 credits**

Examines the history and evolution of music technology and how it impacts culture and society. Explores MIDI (Musical Instrument Digital Interface) techniques, synthesis, programs and equipment that support MIDI and audio production for the performing musician. Students acquire proficiency in MIDI and audio recording/editing technology and demonstrate that proficiency in a large recording/sequencing project. Springs. *Prerequisite(s)*: BA Music majors. (TECH) (TECO)

### **MU3250 Global Jazz 3 credits**

Explores the diverse cultural strands that came together to create jazz in the United States (African-American, Latino, European), interactions with indigenous musics and cultures elsewhere as it spread worldwide and the influence those interactions have on jazz's continuing evolution. Students also spend time working with basic concepts of musical improvisation. Falls. *Prerequisite(s)*: MU 1220; BA Music or BS Music Education majors only. (DICO)(GACO)

### **MU3310 History and Literature of Music I 3 credits**

Development of Western music from ancient times to present day. Emphasis on listening and analysis. First semester through J. S. Bach. Elective for non-music majors with permission of the instructor. Falls.

### **MU3320 History and Literature of Music II 3 credits**

Development of Western music from ancient times to present day. Emphasis on listening and analysis. Second semester to contemporary era. Elective for non-music majors with permission of the instructor. Springs.

Perspectives integrated: ARTS, HIST, LITY. *Prerequisite(s)*: junior standing. (INTG) (WRIT)(INCO)(WRCO)

### **MU3350 Piano Literature I 2 credits**

Literature from pre-Baroque through the Classical style period. Beginning, intermediate and advanced levels of repertoire. For keyboard students. Unscheduled. *Prerequisite(s)*: permission of the instructor.

### **MU3360 Piano Literature II 2 credits**

Literature from Romantic style period through 21st century. Beginning, intermediate and advanced levels of repertoire. For keyboard students. Unscheduled. *Prerequisite(s)*: permission of the instructor.

### **MU3410 Seminar in the Music Business 3 credits**

Survey of topics relating to music retailing: songwriting, publishing, copyright, record industry, broadcasting and film music, agents, managers, contracts, etc. Spring 2010, Spring 2013.

### **MU3420 Vocal Performance Lab II 0 credit**

Techniques of song interpretation and the basics of recital program planning. Students perform regularly in class material which has been previously prepared in the private voice lesson. Required of all voice students enrolled in 2000, 3000 or 4000 level Voice Performance Studies. Falls and Springs. *Prerequisite(s)*: successful completion of MU 1420. *Corequisite(s)*: 2000, 3000 or 4000 level Voice Performance Studies.

### **MU3430 Survey of Vocal Literature 2 credits**

A survey of art song and vocal chamber music from 1600 to the present. Major works by composers from Monteverdi to Ravel are considered, along with British and American composers through the 20th century. Designed for voice majors and minors but is open to others by permission of the instructor. Fall of even years.

### **MU3490 Practicum 1-3 credits**

Practical applications and an extension of methods and materials covered in previous teaching and performance courses. Experiences may include teaching, coaching and supervising situations. Repeatable for credit. *Prerequisite(s)*: open only to BA Music, BS Music Education and BA Theatre Arts majors and Music minors; permission of the instructor.

### **MU3510 Voice Performance Studies 1 credit**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be

repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 2520. *Corequisite(s)*: MU 3420.

**MU3520 Voice Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 2520. *Corequisite(s)*: MU 3420.

**MU3540 Piano Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 2540; open only to BA Music and BS Music Education majors and Music minors. *Corequisite(s)*: MU 2140.

**MU3990 Music Technology Junior Project .5 credit**

BA Music/Music Technology majors may fulfill the Junior Music Technology Project requirement by submitting a multi-track recording of 25 minutes of music that is mixed, mastered and printed to CD or DVD, or by submitting a multimedia project 25 minutes in length that includes music and multimedia that is mixed, mastered and printed to CD or DVD. All projects are subject to approval by the advising professor. Falls and Springs. *Prerequisite(s)*: MU 4150. *Corequisite(s)*: 3000 level Performance Studies.

**MU4010 Senior Recital 1 credit**

Students in the Piano and Voice Performance and Pedagogy and Music Technology Options are required to enroll in MU 4010 and to present a full public recital program (approximately 60 minutes) in one of the semesters of 4000 level Performance Studies. A pre-recital jury before the faculty is required at least four weeks prior to the scheduled recital date. Falls and Springs. *Corequisite(s)*: 4000 level Performance Studies.

**MU4110 Advanced MIDI and Film Scoring 3 credits**

Introduces basic scoring techniques for film and multimedia using scoring software, hard disk recording techniques and equipment that supports multitrack recording, hard disk recording and MIDI sound synthesis systems. Students acquire proficiency music scoring for multimedia using multitrack recorders, hard disk recorders and MIDI technology. Students demonstrate that proficiency in a

large scoring project for film or multimedia presentation. Spring 2012, Spring 2015. *Prerequisite(s)*: open only to BA Music/Music Technology majors.

**MU4150 Introduction to Multitrack and Hard Disk Recording 3 credits**

Introduces basic Multitrack and Hard Disk recording techniques, programs and equipment that support multitrack recording and MIDI sound synthesis. Students acquire proficiency in Multitrack Recording Technology using Multitrack recorders, Hard Disk recorders and MIDI (Musical Instrument Digital Interface). Students demonstrate that proficiency in a large recording project. Spring 2011, Spring 2014. *Prerequisite(s)*: open only to BA Music/Music Technology majors.

**MU4210 Arranging 3 credits**

Choral writing for traditional vocal combinations. Types of piano and instrumental accompaniments. Ranges of band and orchestral instruments, including basic principles of scoring. Unscheduled. *Prerequisite(s)*: MU 2210 and MU 2220.

**MU4270 Composition 1 credit**

Instruction in music composition in a seminar format. Emphasis on creation of original musical compositions. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: MU 2210 and MU 2220.

**MU4280 Voice Pedagogy for Majors 2 credits**

Voice majors do in-depth study of the vocal instrument while simultaneously acquiring practical voice teaching skills and experience. Comprised of two equally important components: classroom lecture and reading assignments; first-hand, supervised teaching experience plus independent work with volunteer singers. *Prerequisite(s)*: MU 1520; voice as the primary instrument.

**MU4340 20th Century Music 3 credits**

Twentieth century techniques: expanded scales and tonal resources, polychords, non-triadic formations, asymmetric and changing meters, polytonality, atonality, serialism, electronic and aleatoric music, etc. Score analysis. Extensive exposure to 20th century compositions and their history. Unscheduled. *Prerequisite(s)*: MU 2210 and MU 2220.

**MU4410 Music Internship 3-12 credits**

The Music Internship is an opportunity for students to gain meaningful work experience by applying the knowledge and skills learned in course work to on-the-job assignments in host organizations. Includes self-assessment, the design of a learning contract, reflection, synthesis and assessment. The internship is a supervised assignment for a prescribed number of working hours. Internships are

established and supervised by the internship advisor. Repeatable for up to 12 credits. Enrollment for internships must be completed during the first two weeks of the registration period. *Prerequisite(s)*: junior status; must be taken before the semester immediately prior to graduation; departmental approval; minimum 2.50 cumulative GPA.

**MU4420 Practicum: Piano Teaching 1-3 credits**

In-depth piano teaching experiences. Practical applications and an extension of methods and materials covered in previous teaching and performance course. Experiences may include, but are not limited to, teaching private or class lessons, coaching and supervising situations. May be repeated for credit. *Prerequisite(s)*: MU 3070, MU 3080 and permission of the instructor.

**MU4430 Practicum: Voice Teaching 1-3 credits**

In-depth voice teaching experiences. Practical applications, and an extension of methods and materials covered in previous teaching and performance courses. Experiences may include, but are not limited to, studio and class teaching, coaching and supervising situations. May be repeated for credit. *Prerequisite(s)*: MU 4280 and permission of the instructor.

**MU4440 Practicum: Music Theatre Performance 1-3 credits**

In-depth, extended, or unique music theatre performing experiences, on or off campus. These experiences may include, but are not limited to: a large role in a Music and Theatre Department production; a role performed with a professional production; stage direction or music direction of a musical. May be repeated for credit. *Prerequisite(s)*: permission of the Director of Theatre or the Director of the Music Theatre Company.

**MU4510 Voice Performance Studies 1 credit**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Corequisite(s)*: MU 3420.

**MU4520 Voice Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 3520. *Corequisite(s)*: MU 3420.

**MU4540 Piano Performance Studies 2 credits**

Individual and/or group study to promote development of technique, repertoire and musicianship. Required attendance at Department recitals. Each course may be repeated. Enrollment in Performance Studies requires the payment of a Performance Studies fee. Falls and Springs. *Prerequisite(s)*: MU 3540. *Corequisite(s)*: MU 2140.

**MU4910 Independent Study 1–3 credits**

Advanced work in specialized area of interest, selected and pursued in consultation with a faculty advisor. Consent required of the instructor who will supervise the independent study and the Department Chair.

**MU4990 Music Technology Senior Project 1 credit**

BA Music/Music Technology majors may fulfill the Senior Music Technology Project requirement by submitting a multi-track recording of 45 minutes of music that is mixed, mastered and printed to CD or DVD, or by submitting a multimedia project 45 minutes in length that includes music and multimedia that is mixed, mastered and printed to CD or DVD. All projects are subject to approval by the advising professor. Falls and Springs. *Prerequisite(s)*: MU 4150. *Corequisite(s)*: 4000 level Performance Studies.

**NS—Natural Science****NS2010 Introduction to Science Education 3 credits**

Focuses on educational foundations and the place of science education as a discipline in the larger framework of education. Topics include historical, philosophical, sociological, economical, ethical, multicultural and other foundational aspects of American science education in public schools. Includes 20 hours of school-based experiences. Falls.

**NSDI2500 Environmental Science 4 credits**

Deals with environmental science as an interdisciplinary study, combining content from the natural sciences and social sciences to present an understanding of environmental and resource issues and possible solutions. Gives students the skills necessary to ask intelligent questions about environmental issues, how to collect and analyze data and use this information to make informed decisions. Field work and Internet web sites are used to collect quantitative and qualitative data. Falls. (SCLB)(SIDI)

**NS3480 History of Science 3 credits**

Historical development of scientific understanding traced from earliest records to modern times revealing the nature of scientific inquiry, the methods of scientific

inquiry, the methods of scientific creativity and the implications of enlightenment in science for society. Science in representative periods of human development and interactions between science and human progress are considered. May be taken as SS 3480. Perspectives integrated: HIST, SCIE. Falls and Springs. *Prerequisite(s)*: junior status. (INTG)(INCO)

**NS3710 Philosophy, Science, and Superstition 3 credits**

See PY 3710 for course description. Falls. *Prerequisite(s)*: junior status. (PHIL)(INCO)

**NS4100 Natural Science Laboratory Techniques 2 credits**

For prospective natural science instructors. Techniques useful in the laboratory phase of secondary school science instruction. Directed by the staff members of two or more specialized natural science fields. Designing, fabricating, arranging and using apparatus in classroom situations. Skills in correlating laboratory experience with other instructional procedures. Selection and maintenance of laboratory equipment and ordering equipment and supplies. Enrollment only through Department Chair. Pass/No Pass. *Prerequisite(s)*: permission of the instructor.

**NS4200 Geographic Information Systems and Remote Sensing in the Sciences 4 credits**

A study of the applications of Geographic Information Systems and Remote Sensing in the Natural Sciences. Students learn the basics of both topics and then via a case study approach analyze how GIS and remote sensing have been used in Conservation, Biology, Ecology, Geology and Meteorology. Laboratory exercises complement lecture topics. Spring of odd years. *Prerequisite(s)*: upper-level standing with at least 12 credits of science courses. (INTG)(INCO)

**NS4330 Science in the Secondary School 3 credits**

The science programs, methods and materials used in the secondary school. Required observation and participation in secondary schools. Falls. (WRIT)

**NS4600 Internship 1–4 credits**

Students engage in a work program to apply, in a practical manner, knowledge gained in major or minor coursework, under the supervision of a faculty sponsor, Department Chair and supervising agency. Students must obtain a faculty sponsor and submit a detailed written proposal prior to undertaking the internship. Students must also submit a written report to their faculty sponsor when the internship is complete. Final approval of the internship will come from the Department Chair. With permission.

**NS4910 Independent Study 1–4 credits**

Ordinarily for natural science majors. Studies undertaken are defined by the students concerned, subject to approval by appropriate staff members. Work may involve reading, conferences, historical, experimental or theoretical projects, field investigations, statistical surveys, or combinations of the foregoing. Students may work in Chemistry or the Physical or Biological Sciences or in interdisciplinary areas involving one or all of these. Consent required of the instructor who will supervise the independent study and the Department Chair.

**PE—Physical Education****PE1000 Flag Football 1 credit**

Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in football. Students develop skills to enhance their game participation, strategies for improved team performance and game analysis skills. Students recognize an improvement in general fitness and playing skills through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Springs.

**PE1010 Soccer 1 credit**

Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in soccer. Students develop skills to enhance their game participation, strategies for improved team performance and game analysis skills. Students recognize an improvement in general fitness and playing skills through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Falls.

**PE1020 Basketball 1 credit**

Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in basketball. Students develop skills to enhance their game participation, strategies for improved team performance and game analysis skills. Students recognize an improvement in general fitness and playing skills through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Springs.

**PE1030 Volleyball 1 credit**

Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in volleyball. Students develop skills to enhance their game participation, strategies for improved team performance and game analysis skills. Students recognize an improvement in general fitness and playing skills through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Falls.



**PE1040 Pilates Matwork 1 credit**  
Physical Activity Skills Course. The Pilates Method is a body conditioning system of stretching and strengthening exercises with the goal of developing fluidity and precision of movement with integration of mind and body. Using the movement system developed by Joseph Pilates, mat work exercises are featured that develop concentration and awareness of key muscle groups with progressive development of strength, flexibility and control. Pass/No Pass. Falls and Springs.

**PE1050 Softball 1 credit**  
Physical Activity Skills Course. Opportunity for skill development and position play. Course time is spent on analysis of skill, how to teach those skills and how to utilize skills in a game situation. Pass/No Pass. Springs.

**PE1090 Archery 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in archery. Students develop skills to enhance their targeting and range. Safety and personal archery skill improvement are emphasized. Appropriate footwear and attire are required. Pass/No Pass. Unscheduled.

**PE1100 Beginning Golf 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in golf. Students develop basic skills, learn the etiquette and rules of golf and discuss strategies for improved performance through practice, play and game analysis. Appropriate footwear and attire are required. Pass/No Pass. Falls.

**PE1102 Intermediate Golf 1 credit**  
Physical Activity Skills Course. Provides an opportunity for participants to improve golf skills through more advanced skill instruction, analysis of stroke mechanics, analysis of playing strategies and practice. Appropriate footwear and attire are required. There is a greens fee. Pass/No Pass. Unscheduled.

**PE1120 Fencing 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in basic foil fencing. Equipment requirements, rules, etiquette and competitive strategies are presented and practiced. Improvement in fencing skills and knowledge develops through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Unscheduled.

**PE1130 Badminton 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in badminton. Participants develop skills to enhance their game participation, strategies for improved team performance and game analysis skills. Improvement in game play and general fitness develops

through active participation and practice. Appropriate footwear and attire are required. Pass/No Pass. Springs.

**PE1140 Racquetball 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in racquetball. Participants develop skills to enhance their game participation, strategies for improved performance and game analysis skills. An improvement in general fitness and playing skills develops through active participation and practice. Appropriate footwear and attire are required. Participants must provide their own racket. Pass/No Pass. Falls and Springs.

**PE1160 Beginning Tennis 1 credit**  
Physical Activity Skills Course. Provides an introduction to the concepts, principles and skills used in tennis. Participants develop skills to enhance their game participation, strategies for improved performance in both singles and doubles play and game analysis skills. Playing skills and fitness are developed through active participation and practice. Appropriate footwear and attire are required. Students must provide their own racket and one can of new tennis balls. Pass/No Pass. Falls.

**PE1162 Intermediate Tennis 1 credit**  
Physical Activity Skills Course. Provides an opportunity for participants to improve tennis skills through more advanced skill instruction, analysis of stroke mechanics, analysis of playing strategies and practice. Appropriate footwear and attire are required. Students must provide their own racket and one can of new tennis balls. Pass/No Pass. Unscheduled.

**PE1170 Alpine Skiing 1 credit**  
Physical Activity Skills Course. Alpine ski instruction provided to students of all skill ability, beginning, intermediate and advanced, utilizing the American Teaching System of Skiing. Intended for non-Adventure Education, non-Athletic Training or non-Physical Education majors. Additional course fee required. Pass/No Pass. Unscheduled.

**PE1180 Cross Country/Nordic Skiing 1 credit**  
Physical Activity Skills Course. Provides basic instruction in cross-country/Nordic skiing. Traditional parallel track and skate-skiing are introduced and practiced on varied terrain. Equipment selection, waxing techniques, training principles and safety consideration are also presented and discussed. There is a fee for ski passes. Pass/No Pass. Unscheduled.

**PE1190 Beginning Swimming 1 credit**  
Physical Activity Skills Course. Provides instruction in basic water safety and swim-

ming skills. Designed for participants who want to become more comfortable in the water and develop a basic level of endurance while swimming. Safety and rescue practice in and around the water are also discussed. Appropriate swimming attire is required. Pass/No Pass. Falls and Springs.

**PE1200 Intermediate Swimming 1 credit**  
Physical Activity Skills Course. Provides an opportunity for participants who are comfortable in the water to improve their swimming skills. Stroke mechanics, conditioning and water safety are addressed. Swimming effectiveness and efficiency improve through structured practice. Appropriate swimming attire is required. Pass/No Pass. Unscheduled.

**PE1300 T'ai Chi Ch'uan I 1 credit**  
Physical Activity Skills Course. Provides instruction in and practice of an ancient Chinese martial arts exercise discipline for health, relaxation and self-cultivation. The slow stretching and balance movements of tai chi releases tension, increases muscle tone and improves flexibility and balance. With regular practice, tai chi produces inner quiet, heightened awareness and dynamic harmony of mind and body. Loose, free moving attire is recommended. Pass/No Pass. Falls and Springs.

**PE1302 T'ai Chi Ch'uan II 1 credit**  
Physical Activity Skills Course. Provides an opportunity for participants to build upon the basic forms learned and practiced in PE 1300. Loose, free moving attire is recommended. Pass/No Pass. Springs. *Prerequisite(s)*: PE 1300.

**PE1390 Weight Training 1 credit**  
Physical Activity Skills Course. Provides instruction in basic strength and endurance training using various systems of free weights and resistance machines. Safe and effective exercise techniques, programming and goal development are addressed in and through supervised, progressive workout sessions. Appropriate footwear and attire are required. Pass/No Pass. Falls and Springs.

**PE1400 Fitness Walking/Jogging 1 credit**  
Physical Activity Skills Course. Provides an opportunity for participants to improve their level of physical fitness and general wellness through a regular and progressive program of walking and/or jogging. Meditative walking, race-walking and other techniques are explored. The importance of healthy posture, effective conditioning plans, hydration, footwear and clothing are also discussed. Appropriate footwear and clothing are required. Pass/No Pass. Falls and Springs.



**PE1420 Scuba 2 credits**  
Physical Activity Skills Course. A series of lectures and pool sessions providing instruction in the use of the self-contained underwater breathing apparatus. Open water dives in lake and/or ocean are required to qualify for SCUBA certification. This is a full semester course. Additional course fee required. Pass/No Pass. Falls and Springs. *Prerequisite(s)*: adequate swimming skill.

**PE1440 Step Aerobics 1 credit**  
Physical Activity Skills Course. An opportunity for participation in a series of group aerobics stepping sessions. Participants have the opportunity to improve cardiovascular endurance, muscle endurance, core stability and flexibility. Each class session is a comprehensive exercise session and includes a warm-up, aerobic stepping, resistance and core training exercises and a relaxing flexibility training period. Pass/No Pass. Falls and Springs.

**PE1550 Self-Defense for Women—RAD 1 credit**  
Physical Activity Skills Course. An introduction to basic self-defense skills, escape and avoidance strategies, offensive and defensive postures, defensive techniques and simulated attacks. Includes an exploration of violence prevention and victim abuse community services. Addresses basic fitness principles, including strength, flexibility and cardiovascular fitness. Addresses fitness principles specifically in terms of the student's ability to practice and perform self-defense skills. Provides a threat assessment simulation. Requires clothing and footwear appropriate for physical activity. Some sections are held over a weekend. Additional course fee required. Pass/No Pass. Falls and Springs.

**PE1620 Social Dancing—Swing/Salsa and Ballroom 1 credit**  
Physical Activity Skills Course. Provides instruction in a variety of social dance styles such as the swing, meringue, cha-cha, fox trot, waltz and salsa. Appropriate footwear is required. Pass/No Pass. Unscheduled.

**PE1700 Yoga 1 credit**  
Physical Activity Skills Course. Provides instruction in the practice of yoga. This ancient health maintenance program involves dynamic balance of breath control with vigorous static and dynamic postures/calisthenics. Participants develop flexibility, tone, postural control and experience healthful relaxation. Attire allowing movement is required. Pass/No Pass. Falls and Springs.

**PE1790 Aquatic Fitness 1 credit**  
Physical Activity Skills Course. Provides instruction adequate for learning knowledge and basic skills necessary for participation as well as participatory opportunity. Designed to improve components of health- and per-

formance-related fitness, including balance, coordination, flexibility, cardiorespiratory conditioning and muscular strength/endurance in a water environment. Exercises performed in shallow and deep water, with and without training aids. Intensity levels may be varied to support individual differences among participants. Falls and Springs.

**PE1880 Special Topics in Physical Activity 1 credit**  
Physical Activity Skills Course. Provides instruction and participation in a specialized recreational and/or health-fitness related activity not offered in other physical activity courses. Repeatable with different topic. Pass/No Pass. Unscheduled.

**PE1960 Snowshoeing and Winter Walking 1 credit**  
Physical Activity Skills Course. Provides instruction in the use of snowshoes and associate equipment for winter walking and hiking. Safety factors, conditioning principles and steps in planning winter outings are addressed. Appropriate outdoor winter attire is required. Pass/No Pass. Unscheduled.

**PE1970 Varsity Athletics 1 credit**  
Awards a maximum of one credit for the successful completion of one session on a varsity team. May not be repeated in same or different varsity team. Students must register for this course and credit during the season of participation. Pass/No Pass. Falls and Springs.

**PE1990 Selected Activities in Physical Education 1 credit**  
Opportunity is provided for non-Physical Education majors with unusual, extenuating circumstances to gain physical education credit for learning experiences outside the content of courses presently offered. Students, however, must demonstrate extenuating circumstances why the physical education requirement could not be met through the regular offerings. Students are responsible for procuring their own placement, verification and enrolling prior to the learning experience. Twenty hours are required to earn one credit. Credit cannot be received retroactively for previous activity experiences. Intended for non-Adventure Education, non-Athletic Training or non-Physical Education majors. Pass/No Pass. *Prerequisite(s)*: permission of the Department Chair.

**PE2200 Lifeguard Training 2 credits**  
Professional Activity Course. Instruction designed to provide individuals with knowledge and skills for the purpose of saving their own lives and the life of another in the event of an emergency. Grading is based upon participation and the completion of skills and written test at a level greater than satisfactory. American Red Cross Certification

for Lifeguard may be attained by those who achieve the minimum required performance standard. CPR and First Aid are required for Lifeguard Training certification. Springs. *Prerequisite(s)*: current CPR for the Professional Rescue and First Aid (or equivalents) and intermediate swimming ability.

**PE2280 Water Safety Instruction 2 credits**  
Professional Activity Course. Students learn to instruct all six levels of the American Red Cross Learn-to-Swim level, the Parent and Child Aquatics Program and the Basic Water Rescue Course. Grading is based on three class presentations and a final exam. Instructor certification is issued to those who achieve the Red Cross standard, including a grade of 80% or better on the final exam. Falls. *Prerequisite(s)*: intermediate level swimming ability.

**PE2415 Introduction to Physical Education and Health Instruction 3 credits**  
Provides an examination of the foundations of education and the motivations for selecting teaching as a profession. This includes health and physical education within the confines of K–12 public education. Topics include societal issues affecting public education, pre-service teacher preparation at the University and a review of American education history. Includes an introduction to lesson planning and classroom/gymnasium management techniques. Students complete 10 hours of observation/participation in the public schools. Subscription to a specific electronic portfolio. Springs.

**PE2422 Rhythm and Dance Fundamentals 1.5 credits**  
Professional Activity Course. Provides an introduction to basic rhythm concepts, body movements and locomotor patterns used in social dancing around the world. Presents the principles and skills associated with rhythmic movement and dance. Prepares students to minimally perform, properly analyze, professionally instruct and appropriately structure practice dance and rhythmic activities. Fundamental dance pedagogy is addressed in the context of diverse folk and social dance styles. Falls and Springs. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2423 Fundamentals in Gymnastics 1.5 credits**  
Professional Activity Course. Provides instruction on the elements and teaching methods of movement education, the principles and skills associated with tumbling, balancing and other basic gymnastic elements and stunts. Prepares students to minimally perform, properly analyze, professionally instruct, and appropriately structure practice for participation and improvement of move-

ment skills. Falls. *Prerequisite(s)*: PE/Teacher Certification or PE/PE and HE Teacher Certification majors.

**PE2424 Net and Wall Activities 1.5 credits**  
Professional Activity Course. Provides instruction on the elements of net and wall activities. The principles and skills associated with activities such as ping-pong, tennis, pickleball, badminton and volleyball are addressed. Activities are designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice for participation and improvement of movement and playing skills. Spring of even years. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2425 Lifetime/Leisure Activities 1.5 credits**  
Professional Activity Course. Provides instruction on the elements of selected target and leisure games and activities such as bowling, golf, darts, bocci and archery. The principles and skills associated with target games are addressed and activities are designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice for participation and improvement of movement and playing skills. Fall of even years. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2426 Striking and Fielding Activities 1.5 credits**  
Professional Activity Course. Provides instruction on the elements of selected striking and fielding activities such as softball, baseball, rounders, cricket, Danish longball. The principles and skills associated with striking and fielding activities are addressed and activities are designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice for participation and improvement of movement and playing skills. Spring of odd years. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2427 Territorial Activities 1.5 credits**  
Professional Activity Course. Provides instruction on the elements of selected territorial activities such as soccer, basketball, water polo, ultimate "Frisbee" and football. The principles and skills associated with territorial activities are addressed and activities are designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice for participation and improvement of movement and playing skills. Fall of odd years. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2428 Flexibility, Core, and Balance Training 1.5 credits**  
Professional Activity Course. Provides instruction on flexibility, core, and balance training principles and skills. Designed to prepare students to minimally perform, properly analyze, professionally instruct, and appropriately structure practice in movement skills specific to various flexibility, core, and stability improvements including strength and active range of motion. Falls and Springs. *Prerequisite(s)*: Health and Human Performance majors and minors only.

**PE2525 Group Exercise Leadership 1.5 credits**  
Professional Activity Course. Provides instruction on group exercise leadership principles and skills. Designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice in movement skills specific to various group exercise modes for improvements in cardiorespiratory and muscular fitness. Falls and Springs. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2550 Foundations of Physical Education 3 credits**  
An introduction to the varied aspects of physical education as a profession and a career. Current issues and trends, the sub-disciplines of physical education and available career options in physical education are discussed. An orientation to curriculum is addressed. Subscription to a specific electronic portfolio. Falls and Springs. (TECO)

**PE2640 Burdenko Conditioning 1.5 credits**  
Professional Activity Course. Provides an introduction to the principles and skills of the Burdenko method of movement training. The relationship between land and water exercises and training principles for improved flexibility, balance, endurance and strength are presented so that students will be prepared to minimally perform, properly analyze and understand the fundamentals of instruction. Springs. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2710 Topics in Fitness 1-3 credits**  
Professional Activity Course. Topics and activities not covered in other physical education fitness courses are presented and practiced, allowing students to extend their experience and competencies in a variety of health-related or sports-oriented physical conditioning modalities. May be repeated for credit with different topic. Unscheduled. *Prerequisite(s)*: Athletic Training or PE majors.

**PE2731 Motor Development 3 credits**  
An examination and analysis of perceptual motor factors which affect human cognitive, psychological, social and physical develop-

ment throughout the lifespan. Topics include prenatal development, patterns of growth and development, reflexes, gender differences, regression, assessment and planning for developmental movement programs. Students develop/continue iWeb folios. Falls and Springs. *Prerequisite(s)*: (PE 2550 or HE 1970) and Health and Human Performance majors. (WRIT)(WRCO)

**PE2740 Water Exercise Techniques 1.5 credits**  
Professional Activity Course. Provides instruction in the principles and skills associated with fitness and therapeutic conditioning using water as the resistance. Principles of health related fitness are addressed and activities are designed so that students are prepared to minimally perform, properly analyze, professionally instruct and appropriately structure practice using water exercises for a variety of clients and applications. Falls and Springs. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2831 Resistance Training Techniques 1.5 credits**  
Professional Activity Course. Provides instruction on resistance training theory and skills. Designed to prepare students to minimally perform, properly analyze, professionally instruct and appropriately structure practice in movement skills specific to resistance training exercise for improvements in muscular strength, size and/or endurance. Falls and Springs. *Prerequisite(s)*: Health and Human Performance majors and minors.

**PE2840 Health and Fitness for Educators 3 credits**  
Provides instruction on the role of physical activity and health behaviors in personal well-being, as well as laboratory experiences that promote integration of knowledge from self-assessments across the dimensions of wellness. Students explore the importance of modeling wellness through a healthy, active lifestyle in their future role as educators. Falls and Springs. *Prerequisite(s)*: Childhood Studies/Teacher Certification and Early Childhood Studies/Teachers Certification majors. (WECO)

**PE2850 Wellness Choices for a Healthy, Active Lifestyle 3 credits**  
Designed to encourage personal awareness and responsibility for optimal health across all dimensions of wellness focusing on the role of physical activity and healthy behaviors. Through weekly lectures, assigned readings, in-class discussions and group activities, and practical application of content, students develop a personal philosophy of wellness, examine wellness attitudes and develop wellness knowledge and skills necessary for optimal health and personal well-being. Specific topics include an introduction to wellness

and fitness, health behavior change, aerobic and muscular fitness, flexibility and back health, exercise-related injuries, wellness diet and energy nutrition, body composition and weight management, body image and ideals, psychological wellness, stress, health and fitness consumerism, addictive behavior, sexual behaviors and communicable disease, as well as chronic disease. Laboratory experiences utilize behavior change strategies to promote behavioral choices that lead to a healthy, active lifestyle across the lifespan. Falls and Springs. (WECO)

**PE2860 Adventure Programming for Physical Educators 3 credits**

Introduces the use of a broad model of "adventure" and a multi-dimensional wellness model to facilitate growth in interpersonal and intrapersonal relationships. Students learn how to develop and sequence a variety of indoor and accessible outdoor initiatives for building trust, community, cooperation, conflict resolution, self-confidence and emotional self-awareness. Students engage in lesson development and assessments that use the full-value contract, challenge by choice goal settings as group process tools. Falls and Springs. *Prerequisite(s)*: PE Teacher Certification and PE/HE Teacher Certification majors. (WECO)

**PE2880 Adventures in Wellness 3 credits**

Uses adventure education and a multi-dimensional wellness model to facilitate growth in interpersonal and intrapersonal skills. Students participate in a variety of indoor and outdoor adventure initiatives for building, trust, community, cooperation, conflict resolution, self-confidence, and emotional self-awareness. Emphasizes gaining knowledge and making positive choices for integrating a balanced, healthy lifestyle. Not open to students with a major in PE Teacher Certification or PE/HE Teacher Certification options. Falls and Springs. (WECO)

**PED12950 Sociocultural Dimensions in Physical Activity 3 credits**

Provides an analysis of physical activity and the problem of sedentarianism in contemporary United States society using a social ecological framework. Students examine social processes and cultural institutions as well as the interrelationships between physical activity/inactivity identities and social and cultural forces. Falls and Springs. (SSDI)

**PE3000 Instructional Strategies I–Elementary 4 credits**

Focuses on instructional strategies for elementary physical education and health education. Beginning physical education and health education standards are the organizing center. An introduction of state, regional, national guidelines for Physical/Health Education. Practical experience at the elementary level.

Subscription to a specific electronic portfolio. Falls and Springs. *Prerequisite(s)*: PE 2731; admittance into the Teacher Certification Option; minimum 2.50 cumulative GPA; and permission of the instructor.

**PE3100 Movement Therapies 3 credits**

Examines functional approaches to movement therapies and explores Western approaches to movement arts. Unscheduled. *Prerequisite(s)*: BI 2110.

**PE3260 Health Fitness Assessment and Programming 3 credits**

Focuses on the components of fitness associated with optimal health, cardiorespiratory fitness, muscular fitness, flexibility and body composition. Learners explore the associations among physical activity, health and hypokinetic diseases; health screening and risk classification; principles of assessment, prescription and exercise program adherence; various assessment strategies for determining levels of health fitness as well as practice health fitness programming techniques specific to health fitness assessments. Learning outcomes include knowledge of health fitness components and their relationship to optimal health, health fitness measures and test administration, health fitness data analyses and exercise programming and techniques relative to health fitness assessment outcomes. Falls and Springs. *Prerequisite(s)*: (BIDI 2010 and BIDI 2020) or (BI 2110 and BI 2120); Adventure Education, Athletic Training, Health Education and Physical Education majors and minors.

**PE3300 Women and Sport Cultures 3 credits**

Focuses on the influence of sport, a gendered institution, on women's identity from a cultural, psychosocial and political perspective. Additionally, students explore how influential women can be in redefining sport and how significant an inclusive definition might be to women's physicality in terms of self-conceptions, participatory behaviors and values. Sport is broadly defined to include exercise, physical activity and gaming behaviors. Creates a learning community that facilitates personal growth through knowledge sharing, using a variety of information sources and class discussions. The learning experience is enhanced through the organization and implementation of a research project, which aims to answer a question of interest to students. May be taken as WS 3300. Fall of odd years. *Prerequisite(s)*: junior status. (DICO) (WECO)

**PE3310 Curriculum Design and Implementation 3 credits**

From theory to conceptual framework. Covers the content of physical education and health education in reference to the knowledge, skills and attitudes that result from effective

instruction. Curriculum instruction, models and design are the prominent emphasis. Observation in public school. Subscription to a specific electronic portfolio. Falls and Springs. *Prerequisite(s)*: PE 3000.

**PE3560 Measurement and Assessment in Physical Education 3 credits**

Various tests and measurements in physical education are examined; techniques for appraising physical fitness and performance are practiced. Basic statistics are studied and applied. Attention is given to the administration, scoring and statistical analysis of tests with emphasis on computer application. Falls and Springs. *Prerequisite(s)*: Mathematics Foundations. (QUAN)(QRCO)

**PE3570 Kinesiology 3 credits**

Fundamental principles of muscular movement, the mechanics of human motion and analysis of human motion, particularly as these apply to selected physical activity. Falls and Springs. *Prerequisite(s)*: BI 2110 (may be concurrent).

**PE3580 Physiology of Exercise 3 credits**

Exercise physiology is concerned with human functions under the stress of muscular activity; thus it provides a basis for the study of physical fitness and athletic training. A development toward scientific investigation and application of recent research is provided and discussed. Designed to provide the needed link between theory and practice. Falls and Springs. *Prerequisite(s)*: (BI 1110 and BI 1120) or BI 2110 (may be concurrent).

**PE3590 Inclusive Physical Activity 3 credits**

An examination of the philosophical, theoretical, and practical applications in promoting lifespan physical activity. Focuses on inclusion, adaptation, and accommodation within activity environments in order to promote self-actualization and active, healthy living for all across the lifespan. Learners explore personal factors and the influence of organizations, community, and public policy on physical activity. Studies social and cultural barriers and enablers, as well as the intersection of ability, race, age, income, class, and appearance with physical activity/inactivity identities, beliefs, values, and behaviors. Springs. *Prerequisite(s)*: junior status. (DICO) (WRCO)

**PE3600 Adapted Physical Education 3 credits**

Students study both theoretical and practical applications in working with children and adolescents who have developmental and physical disabilities. Students are challenged to maximize the motor abilities of these individuals. Studies history, legal mandates, theoretical points-of-view, instructional tech-

niques and the relationship to adapted physical education to the entire physical education program. Falls and Springs. *Prerequisite(s)*: PE 2731; Physical Education Teacher Certification or Physical Education and Health Education Teacher Certification Option.

**PE3650 Physical Activity and Aging 3 credits**

Learners examine the neurological, physiological, psychological and sociological changes occurring during late adulthood with emphasis on physical activity participation in terms of adoption and continuance. Implications for the planning, implementation and evaluation of physical activity programs for the middle and older adult population is the focus of inquiry. Falls. *Prerequisite(s)*: (BIDI 2010 and BIDI 2020) or (BI 2110 and BI 2120) or SW 2500. (WECO)

**PE3710 Special Topics in Physical Education 1-3 credits**

Topics not covered in other physical education courses are presented and studied, allowing students to extend their experience and competencies in a variety of health-related or sports-oriented topics. May be repeated for credit with different topics. *Unscheduled.*

**PE3720 Motor Learning 3 credits**

Designed to present information concerning the fundamental principles and concepts of motor behavior and motor learning involved in the acquisition and refinement of motor skills/abilities. Emphasizes theoretical components as well as practical applications. Laboratory sessions are designed to enhance the understanding of the topics covered in lecture. Falls and Springs. *Prerequisite(s)*: PE 2731 or PE 3730. (SPSY)

**PE3750 Physiology of Exercise Laboratory 1 credit**

Physiological measurements of exercise responses in humans are made for the purpose of demonstrating theoretical concepts acquired in the exercise physiology course. Methodology, procedures and quantification are emphasized in the lab experience. Falls and Springs. *Prerequisite(s)*: PE 3580 (may be concurrent).

**PE3760 Advanced Laboratory Techniques 3 credits**

Students learn the operation, calibration and care of all relevant instruments. They are responsible for lab demonstration, collection of data, calculation techniques of lab reports. All activities are under the direction and guidance of faculty. Springs. *Prerequisite(s)*: PE 3750 or PE 3260.

**PE3880 Physical Education Practicum 1-3 credits**

Designed to give students a practical experience with a specialized focus in selected

options that is supervised and controlled by the Department. May be repeated for credit. Pass/ No Pass. Students are required to pay a liability insurance fee. *Prerequisite(s)*: junior status; minimum 2.00 cumulative GPA; approval of the Department Chair.

**PE4000 Instructional Strategies II—Secondary 4 credits**

Designed to provide prospective physical education and health education teachers with the ability to understand, recognize, analyze, and demonstrate the range of teaching skills employed by effective educators at the middle and secondary level. Analysis of teaching methods in the physical education and health education environment (gymnasium, outdoors, classroom) found at the middle and secondary levels. Practical experience. Subscription to a specific electronic portfolio. Falls and Springs. *Prerequisite(s)*: minimum grade of C in PE 3000; minimum 2.60 cumulative GPA; and permission of the instructor.

**PE4010 Psychosocial Theories of Physical Activity 3 credits**

Focuses on the psychosocial factors related to participation and adherence in physical activity, exercise and recreational sport. Two general questions are explored: (1) How do individual psychological and social group factors influence participation and performance in physical activity, exercise and recreational sport? (2) How does participation in physical activity, exercise and recreational sport affect the psychosocial well being of the individual? Learning outcomes include understanding participants and participant motivation, facilitating psychological growth and development, comprehension of physical activity environments and group processes as well as enhancing health and well-being. Examines the applications of psychosocial theories for enhancing personal growth and promoting participation in physical activity for individuals with diverse cultural identities. Springs. *Prerequisite(s)*: junior status; Adventure Education, Athletic Training, Health Education and Physical Education majors and minors. (INCO)

**PE4520 Principles and Theories of Strength and Conditioning 3 credits**

Advanced study of scientific principles and theories related to strength and conditioning for varying populations. Discussions relative to concepts and applications in the exercise sciences, testing and evaluation, program design and strength and conditioning facility organization and administration are emphasized. Springs. *Prerequisite(s)*: BI 2120, PE 3570 and PE 3580.

**PE4530 Senior Seminar 1 credit**

Provides motivated students with the opportunity to investigate the professional expecta-

tions they will experience upon graduation and entry into their chosen vocations. The course product will be a professional Portfolio. Based on a philosophy that embraces developmental theory, holism and constructivism, the Portfolio will require and document past and current growth in all three behavioral domains; affective, cognitive and psychomotor. The seminar assignments allow for an integrated and holistic assessment of the concepts and skills mastered in their university experience and the variety of ways in which these experiences have prepared them for professionalism. *Unscheduled. Prerequisite(s)*: senior Physical Education major.

**PE4710 Physical Education Student Teaching K-12: Elementary 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in PE 4000; minimum 2.70 cumulative GPA; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**PE4720 Physical Education Student Teaching K-12: Secondary 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in PE 4000; minimum 2.70 cumulative GPA; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**PE4770 Cardiovascular Physiology 3 credits**

The study of cardiovascular function at rest and during exercise. Myocardial function and electrocardiography are addressed as they relate to exercise and exercise testing in healthy and diseased populations. Additional



course fee required. Falls. *Prerequisite(s)*: PE 3580 and (PE 3750 or PE 3260).

**PE4780 Exercise Prescription 3 credits**  
Principles and practices of assessing and conducting health-related adult physical fitness programs to the apparently healthy and at-risk populations. Springs. *Prerequisite(s)*: PE 3580.

**PE4790 Exercise Biochemistry 3 credits**  
An intensive study of the biochemical regulatory mechanisms of energy production and expenditure involved in cellular metabolism. Emphasis is placed on metabolism of food-stuffs and the acute and chronic effects that exercise and physical activity have on the energy pathways. Falls. *Prerequisite(s)*: one semester of Chemistry with a lab, PE 3580, PE 3750 and PE 3760.

**PE4800 Senior Research I 3 credits**  
Students select a research topic to be examined. This includes development of a research question, a literature review and methodology to be employed. Additional course fee required. Falls. *Prerequisite(s)*: PE 3760.

**PE4810 Senior Research II 3 credits**  
Students collect data based upon the method developed in Senior Research I, statistically analyze the data, interpret and draw conclusions from the data and make an oral and a written presentation of their findings. Additional course fee required. Springs. *Prerequisite(s)*: PE 4800.

**PE4880 Physical Education Internship 4–12 credits**  
For students desiring a culminating educational experience with a wide range of practical on-the-job work in their selected option. The Internship is in agencies that are approved, supervised and evaluated by the Department. May be repeated for credit. Students are required to pay a liability insurance fee. *Prerequisite(s)*: minimum 2.70 GPA (cumulative and major); junior standing; approval of the Department Chair.

**PE4910 Independent Study 1–3 credits**  
A student-initiated research project on a selected topic agreed to by a Department faculty tutor. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: minimum 2.50 cumulative GPA.

**PE4920 Organization and Administration of Applied Health Fitness I 3 credits**  
Capstone course provides an opportunity for students to apply knowledge and skills in organization, assessment, programming, and leadership within a campus-based, health fitness setting. Students participate in a supervised, internship experience and interact

with diverse co-workers and clients. Practical applications of learning and demonstration of program competencies require a documented commitment of 135 hours (45 hours per credit) across the semester, and the development and presentation of a professional portfolio. Falls and Springs. *Prerequisite(s)*: (PE 2428, PE 2525, PE 2831, PE 3260), HE or PE majors with senior status, 2.00 GPA in major, and evidence of current CPR certification.

**PE4930 Organization and Administration of Applied Health Fitness II 1–3 credits**

Focuses on the administrative components of health fitness programs. Learners explore the complex process of peer leadership through mentoring relationships. Emphasizes demonstrating knowledge, skills, and abilities required in administering safe, effective and goal-specific health-related fitness programs for typical and atypical adult participants. Reinforces ACSM facility standards and guidelines, including those on design and layout of recreational fitness facilities, basic exercise equipment maintenance, and important legal/ethical/safety issues a health fitness leader should understand and practice. Practical application of learning outcomes include practicum hours working in health fitness program environment. Falls and Springs. *Prerequisite(s)*: PE 4920, and permission of the instructor.

## PEHE—Physical Education and Health Education

**PEHE4710 Student Teaching K–12: Elementary 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in PE 4000; minimum 2.70 cumulative GPA; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**PEHE4720 Student Teaching K–12: Secondary 6 credits**

The culminating field-based experience for all programs leading to teacher certification. It is a continuous, full-time (five days per week) experience of six credits during which, after a period of structured observations, students gradually assume responsibility for a full range of teaching activities encountered in a

school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching. Student teaching is conducted under the supervisory guidance of a cooperating teacher and members of the University faculty. Required seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum grade of C in PE 4000; minimum 2.70 cumulative GPA; permission of the Coordinator of Teacher Certification and Clinical Experiences.

## PH—Physics

**PHDI2010 Physical Science for Non-Scientists 3 credits**

Basic concepts of physical science. Science as a way of thinking, particularly in connection with human affairs dependent upon scientific thought. The nature of the scientific enterprise and the developing character of science. Opportunity to conceptualize and to interrelate abstractions in the context of physical entities and phenomena. Springs. *Corequisite(s)*: PHDI 2020. (SCIE)(SID)

**PHDI2020 Physical Science for Non-Scientists Laboratory 1 credit**

Laboratory work to supplement PHDI 2010. The lab will reinforce lecture concepts in an exploratory setting using scientific methodology and current computer technology. Springs. *Corequisite(s)*: PHDI 2010. (SLAB)(SID)

**PH2130 Physics I 4 credits**  
Introduction to classical physics. Topics include: kinematics, dynamics. Emphasis on application of theory and problem-solving. Laboratory. Falls. (SCLB)

**PH2140 Physics II 4 credits**  
Introduction to classical physics. Topics include: fluids, thermodynamics, waves, electricity, magnetism. Emphasis on application of theory and problem-solving. Laboratory. Springs. *Prerequisite(s)*: PH 2130. (SCLB)

**PHDI2300 Astronomy 3 credits**  
Fundamental principles of astronomy. Includes theories of the origin of the universe and the solar system with emphasis on the structure and motions of the earth, the moon and its phases, eclipses, composition and motion of the sun and other star types, and galactic systems. Practical, naked-eye observations with the use of celestial maps. Some telescopic observations required. Falls and Springs. (SCIE) (SID)

**PH2330 Astronomy Laboratory 1 credit**  
Supplements PHDI 2300 by reinforcing concepts through observational activities. These activities include naked-eye observations, computer simulations and data reduction methods used by past and present astrono-



mers. Falls and Springs. *Corequisite(s)*: PHDI 2300. (SLAB)

**PH2410 University Physics I 3 credits**  
A traditional calculus-based introductory survey of general physics. Intended primarily for majors in the physical sciences and mathematics. Emphasis on the mathematical development of the subject and on the acquisition of problem-solving skills. Topics include: mechanics, rotational motion, thermodynamics. Falls. *Prerequisite(s)*: MA 2550 or MA 2490 (may be taken concurrently). *Corequisite(s)*: PH 2430. (SCIE)

**PH2420 University Physics II 3 credits**  
Second semester of calculus-based general physics survey. Topics include: gravitation, fluids, periodic and wave motion, acoustics, electricity, and magnetism. Springs. *Prerequisite(s)*: PH 2410. *Corequisite(s)*: PH 2440. (SCIE)

**PH2430 University Physics Laboratory I 1 credit**  
Laboratory techniques and experience are designed to enable students to do experiments at an introductory level. Concepts presented in PH 2410 are used and illustrated. Falls. *Corequisite(s)*: PH 2410. (SLAB)

**PH2440 University Physics Laboratory II 1 credit**  
Laboratory techniques and experience are designed to enable students to do experiments at an introductory level. Concepts presented in PH 2420 are used and illustrated. Springs. *Corequisite(s)*: PH 2420. (SLAB)

**PH3130 Mechanics 4 credits**  
Classical mechanics of particles, rigid bodies, systems and continuous media. Topics include: one, two and three-dimensional particle motion, rigid body rotation, fluid dynamics and Lagrangian and Hamiltonian formulations. Emphasis on application of theory including numerical techniques. Recitation session devoted to problem-solving. Spring of odd years. *Prerequisite(s)*: PH 2420 and MA 2560.

**PH3520 Modern Physics 4 credits**  
Survey of modern physics including: historical development of theories of the nature of matter and radiation, relativity, atomic and nuclear structure, quantum mechanics and particles. Emphasis on the application of theory and problem-solving. Falls. *Prerequisite(s)*: PH 2420 and MA 2560.

**PH3900 Special Topics in Physics 1-4 credits**  
Students can pursue subjects of interest in Physics, augmenting the material covered in the introductory courses. Credit varies with amount of material covered. The course must be set up with the instructor before registra-

tion. Occasionally. *Prerequisite(s)*: (PH 2130 and PH 2140) or (PH 2410 and PH 2420).

**PH4910 Independent Study 1-4 credits**  
Ordinarily for natural science majors. Studies undertaken are defined by the students concerned, subject to approval by appropriate staff members. Work may involve reading, conferences, historical, experimental or theoretical projects, field investigations, statistical surveys or combinations of the foregoing. Consent required of the instructor who will supervise the independent study and the Department Chair.

## PO—Political Science

**PO1010 Politics and Government 3 credits**  
The primary concepts and methodology of political science. Falls and Springs. (SPSY)

**PO1020 American Government 3 credits**  
Analysis of structure, process and behavior in the American national government. Actual performance is evaluated in the light of the promise of democracy. Falls and Springs. (SPSY)

**PO1030 World Politics 3 credits**  
Why war? Is peace possible? Are relations among peoples predictable? How? Who has tried? Beginning steps toward an understanding of global political development. Falls and Springs. (GLOB)(GACO)

**PODI1040 Terrorism and Counter-Terrorism 3 credits**  
Explores the historical and current terrorist threat, both on a domestic and international level. Investigates causes: terrorist group strategies and targets; governmental and international responses and counterterrorist measures; and the multitude of challenges posted to the world community by terrorists. Topics include the attacks on the World Trade Center; Middle Eastern terrorism; right-wing terrorism in this country; the specific threat of terrorists using weapons of mass destruction, and etc. Falls. (PPDI)

**PODI1050 Global Problems, Power, and Politics 3 credits**  
Focuses on current issues such as terrorism, war, poverty and pollution to demonstrate how global problems impact our lives and often require multileveled solutions. Examines several approaches to the study of international politics, including political realism and interdisciplinary approaches. Explores the roles of individuals, nation-states and international organizations in creating and resolving global problems. Falls and Springs. (SSDI)

**PODI1060 Politics and Art 3 credits**  
Politics and art have always been entwined. Politicians quickly learned the usefulness of

symbols. Artists appreciated the patronage of those in power. Looks at political expressions in various artistic areas including music, visual arts, theatre, poetry and movies to investigate the impact and meaning of the relationship between politics and art. Springs. (CTDI)

**PODI1100 Citizen Politics 3 credits**  
An exploration of citizens' role in democracy, the interactions between citizens and their governments and the knowledge and skills required for effective citizenships. Falls. (SSDI)

**PO2010 State and Local Government 4 credits**  
The politics of the state and its subdivisions with considerable attention to state and local governments' roles in the federal system. Critical analysis of institutions, process and behavior, with particular attention to New England. Springs. *Prerequisite(s)*: PO 1020.

**PO2020 Public Administration 3 credits**  
Analysis of the nature of bureaucracy; recruitment, training, management and organization of civil servants; public unionism, problems of communication, allocation of resources and public budgeting process, administrative law; problems of public support. Falls. (DICO)

**PO3010 Topics in Political Science 1 credit**  
Topics in political science not normally covered in depth in other political science courses. May be repeated with a different topic for no more than 12 credits. Occasionally.

**PO3020 Topics in Political Science 2 credits**  
Topics in political science not normally covered in depth in other political science courses. May be repeated with a different topic for no more than 12 credits. Occasionally.

**PO3030 Topics in Political Science 3 credits**  
Topics in political science not normally covered in depth in other political science courses. May be repeated with a different topic for no more than 12 credits. Occasionally.

**PO3040 Political Islamic Fundamentalism 3 credits**  
The fastest growing religion in the world is Islam, and Islamic Fundamentalism is one of its most forceful political manifestations. Attempts to understand the political pronouncement and actions of Islamic Fundamentalism. Also tries to demystify Islamic Fundamentalism by identifying its adherents and analyzing their beliefs and objectives. Studies selected countries like Iran, Saudi Arabia, Malaysia, Indonesia and

others. PO 1010 or PO 1030 is recommended. Occasionally. (WRIT)

**PO3100 American Political Thought 3 credits**

A survey of the major political writings in America from colonial to contemporary times. Included are the political ideas of Native Americans, African Americans and women. Spring 2010.

**PO3120 Political Parties, Elections, and Interest Groups 3 credits**

The nature, functions, organizations, and activities of political parties and interest groups as well as the processes of nomination, campaigns, and elections in the American political systems. Springs. (TECO)

**PO3240 International Political Economy 3 credits**

A study of the tensions inherent in international relations because of our international economy, and how they are resolved. Highlights the dynamic interactions between politics and economics, states and markets, and society and individuals. Fall 2009.

**PO3250 Model United Nations 3 credits**

Introduces students to the origins, functions, structure, and issues facing the contemporary UN. Combines both substantive knowledge and simulated debates of major issues in the UN agenda, including genocide, economic development, terrorism, environment, etc. Looks into relationship between the United States and the UN. Prepares a student delegation to the World Model UN conference. Because the course includes role-playing, it offers a chance to extend students' knowledge of international politics while developing proficiency in public speaking, policy formulation, parliamentary procedure, diplomacy, negotiation, and conflict resolution. The course is excellent preparation for a career in public policy or international affairs. Additional course fee required. Springs. *Prerequisite(s)*: junior status. (GACO) (INCO)

**PO3300 Latin American Politics 3 credits**

An introduction to the politics of Latin America. Explores contemporary trends in the region and provides a basis for understanding the unique political institutions, power relations and cultural diversity of selected countries. Emphasis on trends such as democratization, development and U.S. relations exposes students to important contemporary issues and controversies. Spring 2010. (WRIT)(GACO)(WRCO)

**PO3350 Women in World Politics 3 credits**

Examines the roles of women as policy makers and the impact of policy on women. Using case studies and biographies, focuses on

women chief executives, government officials and leaders of political organizations around the globe. Uses class discussions, readings and other materials to explore women's political participation in several regions and allow us to analyze how the policies of national governments and international organizations affect women. Spring 2010.

**PO3500 Politics and Conflict in the Middle East 3 credits**

Introduces students to the current political landscape, the main actors of the contemporary Middle East. Examines the history and culture of the region as well as its economics and politics. Explores important questions, including Islamic Fundamentalism, terrorism, and democracy. Looks into relationship between the Middle Eastern countries and societies and the rest of the world, specifically the United States. Falls. *Prerequisite(s)*: junior status. (GACO)(INCO)

**PO3510 Comparative Politics 3 credits**

The similarities and differences of the governments of contemporary states. Form and function of modern national governments in relation to dynamic political forces and institution in both the developed and underdeveloped areas of the world.

**PO3540 European Politics 3 credits**

Analyzes the politics of Europe as three distinct groups, with due attention to ongoing efforts toward complete integration. Emphasis on differing political cultures, economic systems and postures within world order. Prior completion of PO 1010 or PO 1030 strongly recommended.

**PO3580 Politics of the Pacific Rim—ASEAN 3 credits**

Analyzes the politics of the Association of Southeast Asian Nations (ASEAN) consisting of Brunei Darulsalam, Indonesia, Malaysia, the Philippines, Singapore and Thailand. Emphasis is on the intra-political relations of ASEAN members and their political impact on the Pacific Rim. Prior completion of PO 1010 and PO 1030 is recommended. (WRCO)

**PO3590 The Congress 3 credits**

The politics and processes of the Congress. Analysis of the structure of the institution, its development, the limits placed on it, the recruitment and election of members, their functions, relationships to one another and to their constituents. Fall 2009. *Prerequisite(s)*: PO 1020.

**PO3600 The Presidency 3 credits**

The evolution of the Presidency, its powers and constraints, organization and use of the White House staff, executive decision-making, contemporary views of the office. *Prerequisite(s)*: PO 1020.

**PO3630 Constitutional Law: Civil Liberties 3 credits**

Investigation of American courts with emphasis on the Supreme Court as it applies constitutional principles to conflict over personal rights. Major opinions of the Supreme Court provide most of the textual material. The Court is viewed as a highly political body with the task of resolving our most difficult social conflicts. Falls.

**PO3650 American Foreign Policy 3 credits**

Questions relating to the world role of the United States including what that role should be and how it is played. Includes further discussion of the balance of means against ends and the relationship between domestic politics and foreign policy. Falls. *Prerequisite(s)*: PO 1020.

**PO3660 Political Analysis 3 credits**

A study of the methodology and research techniques of political science. Explores approaches such as individualistic-psychological, rational, game theory, role theory and techniques such as research design and survey research. Discusses the basic principles and assumptions of political inquiry and the devices for gathering and analyzing data. *Prerequisite(s)*: MA 2300.

**PO3680 Public Policy Analysis 3 credits**

Public policy as a process; how problems are defined, agendas set, policies formed, legitimated and evaluated. Several public policies are then analyzed and evaluated. An application of the basic knowledge of methods and sources acquired in introductory political science courses. *Prerequisite(s)*: PO 1020 and MA 2300. (WRIT)(WRCO)

**PO3810 Political Thought 3 credits**

A survey of major schools of political thought from ancient to modern times. Students are expected to reflect systematically on such issues as human nature, the role of the state, our relation to the state and principles of good government. Falls.

**PO4010 Political Science Internship 1–12 credits**

Students engage in work programs and thereby apply knowledge gained from major and minor course areas or concentrations in Political Science. Qualifications to be an intern are determined by the supervising faculty member. Once placed, student interns have both an immediate supervisor and a supervising professor in Political Science. May be repeated for up to 12 credits. With permission. *Prerequisite(s)*: signature of the faculty supervisor.

**PO4530 Political Science****Seminar 3 credits**

Exploration of special topics and/or problems in Political Science. Occasionally.

**PO4910 Independent Study 1–3 credits**

Background in political science through reading and research, supplementing previous course work in the field. A research paper, periodic conference and an oral examination may be required. Consent required of the instructor who will supervise the independent study and the Department Chair.

**PS—Psychology****PSDI1000 Who Am I?: Establishing Personal Identity in the Social Environment 3 credits**

An overview of how the individual develops a sense of self or identity within the context of the social environment. Falls and Springs. (SSDI)

**PS1110 Learning Laboratory 0 credit**

Falls and Springs. *Corequisite(s)*: PS 3210.

**PS1120 Cognitive Psychology Laboratory 0 credit**

Springs. *Corequisite(s)*: PS 3220.

**PS2010 Introduction to General Psychology 3 credits**

The scope and methods of psychology as a scientific study. Falls and Springs. (SPSY)

**PSDI2030 Mind, Brain, and Evolution 3 credits**

Examines questions that have long interested scientific psychologists: What is Mind? What is the relationship between mind and brain physiology? Where does knowledge come from? Do other animals possess mind? Are mental processes the result of evolution? Falls and Springs; also Summers and Winterims. (SIDI)

**PS2050 Life-Span Developmental Psychology 3 credits**

The principles underlying physical, cognitive, emotional and social development through the life-span. Falls and Springs. (SPSY)

**PS2100 Measuring Behavior 3 credits**

An introduction to contemporary strategies of measuring behavior and analyzing data. Includes appropriate use of technology. Falls and Springs. *Prerequisite(s)*: PS 2010. (TECO)

**PSDI2190 Quack Remedies, False Prophets, and Unwarranted Claims 3 credits**

Identifies common myths and misunderstandings about the scientific process and its rules of evidence, and helps students separate real science from pseudoscience, proven

cures from quack remedies and legitimate dangers from media scares. Springs and Winterims. (SIDI)

**PS3030 Social Psychology 3 credits**

A psychological approach to social phenomena with emphasis on the concepts and methods used in the study of the behavior of individuals in various social situations. May be taken as SO 3030. Falls and Springs. *Prerequisite(s)*: PS 2010 or (AN 2210 and SO 2220). (SPSY)

**PS3060 Educational Psychology 3 credits**

The psychology of learning and its application to the learning process in formal education. Falls and Springs. *Prerequisite(s)*: PS 2010.

**PS3100 Adolescent Psychology 3 credits**

A survey of physical, intellectual, social and ethical development between puberty and adulthood. Special attention is given to changes in values during adolescence, and relations with parents, peers and school. Falls and Springs. *Prerequisite(s)*: PS 2010 or PS 2050.

**PS3130 Directed Research in Psychology 1–3 credits**

Under the supervision of the Psychology Department faculty, students assist with on-going faculty research projects. Duties typically include but are not limited to, data collection and analysis, library research and other prepublication tasks. May be repeated for credit. Falls and Springs. *Prerequisite(s)*: PS 2010 and sophomore standing.

**PS3140 Statistics in Psychology 3 credits**

Application of basic statistics to psychological variables. Falls and Springs. *Prerequisite(s)*: PS 2100. (QUAN)(QRCO)

**PS3150 Research Methods in Psychology 3 credits**

Application of research design and scientific method to research on psychological variables. Includes professional APA writing. Falls and Springs. *Prerequisite(s)*: PS 3140. (WRIT)(WRCO)

**PS3170 Child Development 3 credits**

The process of development from the end of infancy to the beginning of adolescence. Discusses factors affecting intellectual, social and physical development. Springs. *Prerequisite(s)*: PS 2010. (SPSY)

**PS3190 Development and Understanding 3 credits**

Covers physical, cognitive, social, emotional and personality development from the pre-school period to the beginning of adulthood. Focuses on the interaction of physical and cognitive development. Concentrates on the relationship of wellness in physical growth to cognitive abilities, such as acquiring knowl-

edge, solving problems, comprehending abstract concepts and social skills. An empirical approach is taken in the examination of these topics. Falls and Springs. (WECO)

**PS3200 Psychology of Women 3 credits**

Lecture and discussion integrating biological, psychological and medical information to examine objectively the origin and development of sex differences. Topics include differences in biological makeup, personality, learning, aggression and achievement motivation. Springs. (DICO)

**PS3210 Learning 4 credits**

Basic processes and principles of learning which are fundamental to any organism's interaction with the environment. Laboratory experience is an integral component. Falls and Springs. *Prerequisite(s)*: PS 2010. *Corequisite(s)*: PS 1110.

**PS3220 Cognitive Psychology 4 credits**

Examination of processes basic to the acquisition, retention and reproduction of knowledge. Thinking, memory, language, problem-solving and decision-making are topics to be covered. Laboratory component. Springs. *Prerequisite(s)*: PS 2010. *Corequisite(s)*: PS 1120.

**PS3230 Motivation and Emotion 3 credits**

Physiological, personality and social approaches to the study of human motivation and emotion. Occasionally. *Prerequisite(s)*: PS 2010.

**PS3250 Cognitive Development 3 credits**

An overview of research and theory concerning cognitive processes in school-aged individuals, with emphasis on applications to classroom and other learning environments. Fall of even years. *Prerequisite(s)*: PS 2010 or PS 2050.

**PS3260 Perception 3 credits**

A survey of the underlying physiological processes, anatomical structures and information processing capacities of the visual, auditory, taste, smell, cutaneous, organic vestibular and kinesthetic sense systems. Springs. *Prerequisite(s)*: PS 2010.

**PS3280 Developmental Psychobiology 3 credits**

Provides students with a detailed description of how genetic and environmental factors influence the neurological development of infants and young children. Addresses topics such as the development of the nervous system, behavior genetics, neuroanatomy, nerve cell function, sensory processes, pathological development and research methodology used in the neurosciences. Springs. *Prerequisite(s)*: PS 2010 or PS 2050.

**PS3340 Personality 3 credits**  
 Psychoanalytical, existential, social, behavioral and self theories and how they relate to the development and assessment of behavior. Falls and Springs. *Prerequisite(s)*: PS 2010.

**PS3370 Psychology of Love and Sex 3 credits**  
 Examination of human sexuality and intimate relationships from the psychological point of view. Topics include: human sexual response, sexual behavior through the life-span, sexual dysfunction and therapy, interpersonal attraction, communication between partners, success and failure in marriage. Unscheduled. *Prerequisite(s)*: PS 2010 or PS 2050.

**PS3460 Industrial/Organizational Psychology 3 credits**  
 A survey of applications of psychological principles to the work place. Topics include the role of the psychologist in industry; personnel testing and evaluation; the social context, e.g., motivation, attitudes and leadership; and human factors in job design, e.g., working conditions and safety. Falls. *Prerequisite(s)*: PS 2010.

**PS3530 Creativity 3 credits**  
 The nature of problem-solving and creativity, theories of creativity, personality characteristics of the creative person and exploration of methods used to increase creativity, such as brain-storming. Perspectives integrated: ARTS, SCIE, SPSY. Springs. *Prerequisite(s)*: PS 2010 and junior status. (INTG)

**PS3560 Adulthood and Aging 3 credits**  
 Major developmental transitions between adolescence and the end of life. Physical, cognitive, personality, social and occupational development. Special topics covered are stress, changing life styles and death. Falls. *Prerequisite(s)*: PS 2010 or PS 2050.

**PS3600 Biological Psychology 3 credits**  
 The neuroanatomical and physiological basis of physical movement, arousal, hunger, thirst, emotion, sleep, learning and memory. Falls. *Prerequisite(s)*: PS 2010.

**PS3700 Psychology and Law 3 credits**  
 Applies knowledge of psychological variables to various aspects of the law including eyewitness testimony, jury selection, police interrogations, repressed memories and the role the psychologist plays in the legal system. Falls and Springs. *Prerequisite(s)*: PS 2010.

**PS4010 History and Systems 3 credits**  
 The major trends of thought which have shaped the development of psychology as a science. The unifying theoretical systems and concepts which shape and structure contemporary psychology. Falls and Springs. *Prerequisite(s)*: PS 2010.

**PS4320 Abnormal Psychology 3 credits**  
 The categories, causes and methods of treatment of the major forms of psychopathology: neurosis, psychosis, personality disorders, addictions, sexual deviations, psychophysiological problems. Falls and Springs. *Prerequisite(s)*: PS 2010.

**PS4330 Community Mental Health 3 credits**  
 A comprehensive survey of community mental health as an applied and scientific discipline, emphasizing how community mental health works to prevent mental health problems and address the needs of diverse populations. Falls. *Prerequisite(s)*: PS 4320.

**PS4350 Treatment of Psychological Disorders 3 credits**  
 Surveys the major treatment methods for addressing psychological disorders; cognitive-behavioral, group, humanistic, psychiatric/medical, psychodynamic and systemic approaches are covered using a bio-psychosocial perspective. Springs. *Prerequisite(s)*: PS 3340 or PS 4320.

**PS4360 Internship in Psychology 3–6 credits**  
 The undergraduate internship provides supervised field experience at a site related to the student's degree and option. Students participate in unpaid service in the community (100 hours for three credits or 200 hours for six credits) and attend class meetings. Students must apply for permission in the semester prior to their registration for this course. Students are required to pay a liability insurance fee. *Prerequisite(s)*: permission of the instructor.

**PS4400 Psychology Seminar 3 credits**  
 Current topics in psychology. Topics selected and determined by students' backgrounds and interests. For psychology majors only. May be repeated for credit. Falls and Springs.

**PS4440 Psychological Measurement 3 credits**  
 Focus on the theoretical principles guiding the assessment of psychological attributes. Application to the construction, use and evaluation of intelligence, achievement, personality, attitude and vocational measures. Falls. *Prerequisite(s)*: PS 2010 and (PS 3140 or MA 2300).

**PS4800 Advanced Research Seminar in Psychology 3 credits**  
 Students conduct individual research projects under the supervision and guidance of faculty. Considers advanced topics in statistics. Springs. *Prerequisite(s)*: PS 2010, PS 2100, PS 3140 and PS 3150.

**PS4910 Independent Study 1–3 credits**  
 Advanced readings and research with conferences and oral examinations. Provides advanced students with background and specialized knowledge relating to an area in which an appropriate course is not offered or relating to a special individual interest. Consent required of the instructor who will supervise the independent study and the Department Chair.

**PS4940 Independent Research in Psychology 1–3 credits**  
 With the assistance and supervision of a member of the Psychology Department faculty, students design, execute, analyze and write a report on an original experimental research project. Repeatable for a maximum of six credits. *Prerequisite(s)*: permission of the instructor.

## PY–Philosophy

**PY1010 Ultimate Questions 3 credits**  
 Explores some of humanity's biggest questions, such as: Does God exist? What are we, and do we survive the death of our bodies? Are right and wrong mere matters of social convention? What's the basis of a government's authority, and could a world government solve humanity's biggest challenges such as war, global inequality and environmental degradation? Students become aware of a rich diversity of philosophical opinion among some major thinkers in the Western tradition, and they too try to work out for themselves some answers to some of our ultimate questions. Falls and Springs. (PHIL)(GACO)

**PYDI1030 Thinking for Yourself 3 credits**  
 All educated people rightly value being able to think for themselves. This requires some understanding of the principles of good reasoning as well as the courage and confidence to question authority and the "received opinions" of the group. Builds on the skills of the First Year Seminar to help students become aware of themselves as critical thinkers in a society where critical thinking is crucial for us as informed citizens and responsible participants in the business of the community. Students apply the principles of good reasoning—including fallacy-spotting and assessment of evidence—to the arguments and persuasive techniques of political leaders, advertisers, talk show hosts, news analysts, entertainers and others. Through short papers, oral reports, class discussions and debates, students apply the lessons of good critical thinking to some of the most important issues of the day. Falls and Springs. (PHIL)(SSDI)

**PYDI1050 Building a Civil Society 3 credits**  
 Focuses on the role of the individual in creating a civil society leading toward the advancement of peace, human rights and democracy.



A main premise is that the individual and society have a reciprocal influence: societies nurture and shape the individuals that comprise it; but individuals also have the power to change society in significant ways. The dynamic of social change from the point of view of both the society and the individual are explored, and ways are suggested for individuals to contribute to this social dynamic. Special topics include nonviolent societal transformation, institutional barriers to growth and change, and revolutionary techniques for the resolution of conflict. Falls. (SSDI)

**PY1120 Doing Right and Being Good 3 credits**

Explores various answers to the main questions of ethics, including: What is good? What actions are morally right? What is the good life for human beings? Students are encouraged to apply these theories in working out their own answers to such contemporary social issues as gay rights and our attitudes toward other societies and sub-cultural groups. Falls and Springs. (PHIL)(DICO)

**PYDI1200 Introduction to God 3 credits**

Examines the many faces of God that humanity has used to understand the concept of a Supreme Being. Looks carefully into the key events and beliefs of each system. Falls and Springs. (PPDI)

**PY1500 Women and Religion 3 credits**

Examines the contributions of women in religion from mainstream to evangelical to Native American spirituality, and attempts to see why their contributions have been, and continue to be, so important in what many would describe as "patriarchal" religious institutions. Students are presented with 'raw' material: the voices of women in religion over the course of American history. Includes most religious movements as well as traditional Christian, Jewish, Muslim and alternative religious institutions. Students hear women 'in their own words' and critically reflect on their contributions past and present. Springs. (DICO)

**PY2000 Basic Argumentation and Debate 3 credits**

An introduction to the principles of debate and the forms of argumentation it employs. Includes the procedures of formal debate, the researching of debate topics, the types and tests of evidence, the questions of presumption and the burden of proof, analysis of issues, refutation and rebuttal. Falls.

**PY2010 Debate Team 1.5 credits**

A directed activity involving participation with the University Debate Team. Actual debate experience on and off campus. Usually taken in the same semester with PY 2000, but may be a separate activity. May be repeated for up to six credits. Offered for credit at student's

request. *Prerequisite(s)*: permission of the instructor.

**PY2200 Ideas of the Old Testament 3 credits**

An examination of the main themes and ideas in the Old Testament (Hebrew Scripture) from creation accounts to the major and minor Prophets. Seeks to increase awareness of this major influence on people, religions and traditions throughout the world as well as in our own society, concentrating on the foundational relevance of the story of the Biblical people of Israel and their journeys. Looks closely at the creation of a people and the stories which inspired them: stories that continue to inspire many. Fall of odd years. (GACO)

**PY2210 New Testament Thought 3 credits**

An introduction to the sources and formation of the New Testament dealing in particular with the philosophical dimensions of the basic teachings of the historical Jesus and the various ideas formed by the early Christian community. Also relates these ideas to contemporary values and settings, while exploring their influence on different parts of the world and the way in which both Jesus and Paul became the formative thinkers for many. Spring of even years. (GACO)

**PY2290 Religion in America 3 credits**

An exploration of the diverse theological and religious elements in America. Deals with movements within the major religions as they have occurred in America and the United States, while providing insight into the newer forms of American theological expression. Focuses on the large numbers of religious experiments in this society and the modern day rise of new religious groups. Spring of odd years. (DICO)

**PY2310 Elements of Logic 3 credits**

An introduction to the structure of correct reasoning, the problems of language, informal fallacies and the need for systematic and critical thinking. Includes both traditional logic and the methods of modern symbolic logic. Falls and Springs. (PHIL)(QRCO)

**PY2610 Eastern Philosophy 3 credits**

A study of central philosophical concepts and issues from the point of view of some of the major sources of Eastern thought, such as the Vedas, Upanishads, Bhagavad-Gita, Tao te Ching and Buddhist writings. Fall of odd years. *Prerequisite(s)*: any other philosophy course.

**PY2630 The Concept of Death 3 credits**

Analysis and evaluation of various perspectives on death. Readings cover philosophical, psychological, sociological, practical and artistic aspects of death and different modes of

response to human mortality. Spring of odd years. *Prerequisite(s)*: any other philosophy course.

**PY2650 Mind and Machine 3 credits**

Discussion and critical examination of philosophical issues relating to the nature of the mind and to the possibility of artificial minds and artificial persons. Topics to be covered include thought, perception and intentionality, consciousness, the nature and theoretical limits of computation, animal minds, affect and emotion, freedom and mechanism, personal identity, function, teleology and the nature of interpersonal relationships. Readings will include both philosophical writings and fictional explorations of some of the philosophical themes covered. Springs. (TECO)

**PY3010 Topics in Philosophy 3 credits**

Explores in-depth some philosophical topic of the instructor's choosing. May be repeated for credit with a different topic. *Prerequisite(s)*: three credits in Philosophy.

**PY3110 History of Philosophy I: Ancient 3 credits**

An introductory study of the beginning of the philosophical tradition in ancient Greece. Examines the concepts and theories of the Pre-Socratic philosophers, Socrates, Plato, Aristotle, etc. Selected original works of the major philosophers are read and discussed in detail. Fall of odd years. *Prerequisite(s)*: any other philosophy course and junior status. (INCO)

**PY3120 History of Philosophy II: Modern 3 credits**

An introductory study of Western philosophy from the Renaissance to the 20th century. Includes introductory studies of Descartes, Spinoza, Leibnitz, Hobbes, Locke, Berkeley, Hume, Kant, Hegel and others. Spring of even years. *Prerequisite(s)*: any other philosophy course and junior status. (INCO)

**PY3140 Medieval Philosophy 3 credits**

Philosophical development of the medieval mind from the neo-Platonic thought of Saint Augustine through such luminaries as Erigena, Anselm, Aquinas and Duns Scotus. *Prerequisite(s)*: permission of the instructor.

**PY3150 Society, Ethics, and the Law 3 credits**

See CJ 3150 for course description. Not open to students who have earned credit for CJ/PY 2100. Falls and Springs. *Prerequisite(s)*: junior status. (PHIL)(DICO)(INCO)

**PY3160 History of Philosophy III: Contemporary 3 credits**

Major influential movements in 20th century philosophy. Pragmatism, Logical Positivism,



Philosophical Analysis and Existentialism. Fall of even years. *Prerequisite(s)*: any other philosophy course and junior status. (INCO)

**PY3210 Comparing World Religions 3 credits**

Meant for students who wish to compare and contrast the major religious traditions of the world. Students read original texts from various religions. Each tradition is given equal weight during the reading, writing and class discussion. Students become familiar with figures of world religions. Deals with the resulting social behavior, artistic expression and concepts of the sacred, from Christianity and Judaism to Islam and Buddhism. Special attention is given to international and culturally diversifying implications of each tradition. Students are expected to write on a religious tradition during the semester and develop that writing to a full paper by the end of that semester. A student may elect to compare two different religious faiths and/or their religious expressions (literature, arts, etc.). The mid-semester test is on the basics of each world religion. Included as the major world religions are Hinduism, Buddhism, Christianity, Islam, Judaism, Taoism and Confucianism along with their scriptures/readings/literature and art. Falls. *Prerequisite(s)*: junior status. (INTG)

**PY3390 Applied Ethics 3 credits**  
Focuses on the analysis of values from the perspectives of (1) ethics, (2) various social institutions, e.g., business, law, medicine, government, journalism and education, etc. and (3) physical science, with emphasis on environmental concerns. May be taken as IS 3390. Perspectives integrated: PHIL, SCIE, SPSY. Unscheduled. *Prerequisite(s)*: junior status. (INTG)

**PY3450 Enlightenment, Love, and Literature 3 credits**

A study of three related philosophical problems—evil in a supposedly just universe, and the fall and rise of human beings—as they are embodied in selected works from both philosophy and literature. Literary works such as Greek tragedy, Shakespearean tragedy, Goethe's *Faust*, Blake's *Songs of Innocence*, T.S. Eliot's *Four Quartets*, and Hesse's *Siddhartha* are used as concrete examples of the various interpretations of the philosophical issues. Perspectives integrated: LITY, PHIL. Spring of even years. *Prerequisite(s)*: junior status. (INTG)

**PY3460 Sexual Ethics 3 credits**  
An examination of past and present sources of sexual ethics in the Judeo-Christian tradition, with an emphasis on present day sexual ethics and the dimensions of sexuality yet to be accepted by a given ethical framework. Integrates Literature and Philosophy as well as religious views and historical sources.

Attempts to distinguish between the world of the secular and the religious, while analyzing both. Fall of even years. *Prerequisite(s)*: junior status. (INCO)

**PY3540 Philosophy of Religion 3 credits**

A critical analysis of the traditional and contemporary religious concepts and values that underlie the basic doctrines of the major religious faiths. Examines some contemporary religious and quasi-religious movements. Spring of even years. *Prerequisite(s)*: junior status. (INCO)

**PY3560 Philosophical Perspectives on War and Peace 3 credits**

Offers an integrated look at the problem of war and violence in the nuclear age including historical, religious, psychological, political, economic and technological aspects. Helps students see the interrelationships among the many causal factors of war as well as to help them think philosophically about the problems of war and peace as global issues facing virtually all nations and, indeed, raising the most serious questions about the continued existence of life on earth. Readings are based on texts, handouts and web sites to ensure that students have information on current developments regarding arms trade, military budgets, United Nations activity, etc. May be taken as IS 3560. Perspectives integrated: HIST, PHIL, SPSY, TECH. Springs. *Prerequisite(s)*: junior status. (INTG)(GACO) (INCO)

**PY3710 Philosophy, Science, and Superstition 3 credits**

What is it that distinguishes science from irrational opinion and superstition? Is science really a way to knowledge? The only way? What is a scientific theory, and how does science manage to explain things? What is superstition, and why have people found it so attractive? And where do so-called pseudo-scientific ideas like creationism and astrology fit into our understanding of reality? Uses historical and current examples to illuminate the nature of science and superstition and attempts to find philosophical principles that can guide us in evaluating controversial beliefs. May be taken as NS 3710. Falls. *Prerequisite(s)*: junior status. (PHIL)(INCO)

**PY4770 Great Philosophers Seminar 3 credits**

The works of from one to three major philosophers. Different philosophers may be selected each offering of the course. May be repeated. Philosophy majors should consult with their advisor. Unscheduled. *Prerequisite(s)*: three credits in philosophy. (WRIT)(WRCO)

**PY4910 Independent Study 1–3 credits**

Limited to students who have demonstrated their ability to do superior work in philosophy and who are able to do independent work.

Before registering for independent study, students should consult with a member of the Department concerning a program of study. Students are expected to work independently with tutorial guidance. Evidence of progress is demonstrated by papers and discussion. Offered by arrangement. Consent required of the instructor who will supervise the independent study and the Department Chair. *Prerequisite(s)*: 12 semester hours in philosophy with an average grade of B or better.

## RL—Reading

**RL1200 Children's Literature 3 credits**

A survey which deals with the selection, evaluation and utilization of literary materials for children from ages 5 to 13. Focus is on the different genres in children's literature. Discussion and projects are based on using a variety of classical and contemporary genres, technology and media. Extensive reading and critiquing of children's books are required with the aim of developing an appreciation and understanding of the value of children's literature in language and literacy development in a variety of settings. Participation activities with children are required. Falls and Springs.

**RL2500 Language and Literacy Development in Young Children 3 credits**

Examines language acquisition and literacy development of children birth through eight years of age. Focuses on fostering language development and communication in the home and early childhood settings. Examines second language acquisition and the needs of young English language learners. Explores materials, environments and interactions that support literacy development in the home and early childhood settings. Requires three hours of field experiences in an approved early childhood setting. Falls and Springs. *Prerequisite(s)*: ER 2000.

**RL3050 Foundations of Reading and Writing 3 credits**

Examines the foundations of literacy instruction with an emphasis on curriculum, methods and materials for children in kindergarten through grade three. Focuses on phonemic awareness, phonics, fluency, vocabulary, comprehension, core reading programs and stages of writing development in a balanced reading framework. Falls and Springs. *Prerequisite(s)*: CD 1000 and full acceptance to the Teacher Certification Option. *Corequisite(s)*: ED 3050, ED 3051, and ED 3052.

**RL3070 Language Arts and Reading in the Elementary School 3 credits**

Examines the integration of the language arts and reading for students in grades one through six. Focuses on word study, content area reading and writing, study skills and lit-

erature study. Explores materials and methods for all learners in a balanced reading and writing program. Candidates participate in a practicum in an assigned public school. Falls and Springs. *Prerequisite(s)*: completion of Cluster I and full acceptance to the Teacher Certification Option. *Corequisite(s)*: ED 3070, MA 3070, and SE 3070.

**RL3500 Reading, Writing, and Language Arts in the Primary Grades 3 credits**

Focuses on the underlying principles of effective reading and writing instruction in the primary grades. Emphasizes strategies for planning, implementing and assessing language arts experiences that integrate reading, writing, listening and speaking. Requires a practicum of two hours per week in a first, second or third grade classroom. Falls and Springs. *Prerequisite(s)*: acceptance into Teacher Certification Candidacy.

## SE—Special Education

**SE2080 Children with Disabilities 3 credits**

Provides students with the foundation for understanding social, family and educational contexts affecting the lives of children with disabilities. Students explore historical and social factors that have shaped policies toward children with disabilities and understand the provisions of state and federal legislation relevant to children with disabilities. Competencies to be addressed include understanding of family issues and development of strategies for collaborating with families, familiarity with disability labels identified in federal legislation, understanding of the pre-referral, referral, assessment and planning processes for the education of children with disabilities and familiarity with ways contexts are adapted and technology used to include children in active participation. Includes a 10-hour service learning experience outside of class. Falls and Springs. *Prerequisite(s)*: restricted to Childhood Studies, Early Childhood Studies or Music Education majors.

**SE2850 American Sign Language I 3 credits**

A critical skills course in a major communication system for those preparing to work with the deaf and the hard of hearing. Grammar and vocabulary are emphasized in both the receptive and expressive modes of language transmission. May be taken as LL 2850. Falls.

**SE2860 American Sign Language II 3 credits**

A continuation of skills learned in American Sign Language I. Students continue to develop the skills taught in the first course while adding new vocabulary and linguistic concepts. Students further their receptive and conversational skills. Covers topics such

as deaf culture, etiquette, history and current events. May be taken as LL 2860. Springs. *Prerequisite(s)*: LL 2850 or SE 2850 or permission of the instructor.

**SE3070 Classroom Applications in Inclusive Education 3 credits**

Broadens students' understanding and knowledge of the nature and needs of children with disabilities in traditional educational settings. Emphasis is on providing specific instructional strategies, diagnostic and academic interventions, effective programming and remediation for students with exceptionalities. Students work extensively with Individual Education Plans, 504 plans, behavior plans, as well as a variety of assessment instruments. Includes the use of direct instruction, curriculum-based assessment and systemic observations. Students are required to do a field placement with their Integrated Curriculum and Assessment classes. Falls and Springs. *Prerequisite(s)*: SE 2080. *Corequisite(s)*: ED 3070, MA 3070, and RL 3070.

**SE3071 Assessment in Inclusive Education 3 credits**

Enhances skills in curriculum based and classroom-based assessments related to special education. Provides an overview of the purposes and methods of assessment in the context of the consultative-collaborative model of inclusive special education service delivery. Candidates explore alternative assessments, test construction, test adaptations, portfolio and authentic assessment measures, categories of diagnostic tests, standardized tests, adapting student evaluation and adapting grading for students with disabilities. Current issues, research and best practices in assessment in the context of inclusive special education are core components. Last offering Fall 2009. *Prerequisite(s)*: ED 3052. *Corequisite(s)*: ED 3070, RL 2070, SE 3070.

**SE3090 Introduction to Special Education: Middle and Secondary 3 credits**

Provides teachers and other social service professionals with the understanding and skill to work effectively with children with disabilities in integrated settings. Emphasis is placed upon the disabilities most prevalent in society, such as learning disabilities, behavior and emotional disorders and cognitive impairments. Other forms of disabilities to be discussed include sensory, neurological and musculoskeletal. Competencies to be presented and discussed are consistent with International Council for Exceptional Children standards and include: historical, philosophical and legal foundations of special education, characteristics of individuals with disabilities, communication and collaborative efforts among professionals, understanding professionalism and ethical practices in

special education. An observation component is integral to this course. This course is designed for K-12 Teacher Certification and Middle School majors only. The course is not intended for majors in the Education Department. Falls and Springs.

## SO—Sociology

**SODI2200 Exploring Social Life 3 credits**

American social life emphasizes an individual level perspective and as a result, many of us tend to overlook the role of broader social influences in shaping the self and life chances. Examines the social, economic, political and technological forces that influence our behavior, decisions and perceptions of our selves. Particular attention is given to exploring current topics, the rules that govern social interaction and group behavior and to issues involving class, race, gender and religion. Falls and Springs. (SPSY)(SSDI)

**SO2220 Foundations of Sociology 3 credits**

Theories and methods of Sociology are applied to the analysis of such issues as social class, race, gender, religion and politics. Not open to students who earned credit for Introduction to Sociology. Falls and Springs. (SPSY)(DICO)

**SO2380 Social Problems 3 credits**

A sociological investigation of problems that originate in human social interaction and have an undesirable impact on social life. Focuses on problems of poverty, ethnic relations, crime, inequality and alienation, and studies ways of coping with these problems. Springs. (SPSY)

**SO2400 White Collar Crime 3 credits**

An examination of definitions of white collar crime, of the impact such crime has on society and of societal responses to white collar crime. May be taken as CJ 2400. Springs.

**SO3030 Social Psychology 3 credits**

See PS 3030 for course description. Falls and Springs. *Prerequisite(s)*: PS 2010 or (AN 2210 and SO 2220). (SPSY)

**SO3070 The Sociology of the Family 3 credits**

Focuses on the social forces shaping the changing dynamics of contemporary family. Studies theoretical and conceptual frameworks. Addresses at length specific issues and problems such as abortion, single parenting, childcare and domestic violence. Falls. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3080 Juvenile Delinquency 3 credits**

See CJ 3080 for course description. Fall of even years. *Prerequisite(s)*: CJ 1010 or SO 2220.

**SO3090 Criminology 3 credits**  
See CJ 3090 for course description. Falls and Springs. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3100 Urban Sociology 3 credits**  
Provides students with an understanding of the growth of the modern city. Covers theoretical and conceptual frameworks as well as problems people face living and working in the urban environment. Explores ways to improve urban living in specific countries. Fall of even years. *Prerequisite(s)*: SO 2220.

**SO3160 Women in World Development 3 credits**  
Examines women's changing role and status in developing countries. Issues covered and explored include sexual division of labor, relationship among classes and castes, gender and ethnicity, the household economy and subsistence production, migration, leadership roles and styles, women's role in development projects, internationalization of capital and women's work, and women and political power. Materials focus on women's experiences in Africa, Asia and Latin America. Springs. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3180 Sociology of Deviance 3 credits**  
The sociology of deviance involves the study of differences between people. What differences matter to people? Why do some people choose to be different? Why do people react to difference the way they do? And how does societal reaction affect those who are different? These are some of the fundamental questions that are addressed. Falls. (DICO)

**SO3210 Topics in Sociology 3 credits**  
Examines specialized areas in sociology which are not covered in regularly scheduled courses. Occasionally. *Prerequisite(s)*: SO 2220.

**SO3350 Sociology of Popular Culture 3 credits**  
Examines the effects of popular culture on society and of society on popular culture; how does the popular culture industry work; and what makes a given artifact 'popular'? Fall of even years. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3370 Sociology of Race and Ethnicity 3 credits**  
Examines the dynamics that produce and maintain structured social inequality based on minority status and the social consequences of such inequality. Topics include the nature and definition of race, the origins of prejudice, theories of discrimination, immigration, present-day problems and trends. Fall of odd years. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3380 Drugs and Society 3 credits**  
Examines the role psychoactive substances have played in religions and cultures in world history and the history and politics of drug control today and in the past. Fall of odd years. *Prerequisite(s)*: junior status. (INCO)

**SO3390 Environment and Society 3 credits**  
A study of the relationships between social organization, culture and the environment. Current environmental problems and policy issues are debated, and their connections with society and culture are a focus. The meanings of nature and wilderness are also discussed. Other topics include: environmental justice, the history and workings of the environmental movement, greenwashing, public attitudes towards the environment and the idea of sustainability. Perspectives integrated: GLOB, SCIE, SPSY. Springs. *Prerequisite(s)*: (AN 2210 or SO 2220) and junior status. (INTG) (INCO)

**SO3450 Social Stratification 3 credits**  
A sociological analysis of the nature, causes and consequences of class and status differences within society. Focuses on concepts and theories of social stratification. Studies specific issues related to social mobility, class, status, differential power and poverty. Springs. *Prerequisite(s)*: AN 2210 or SO 2220.

**SO3500 Illness, Wellness, and Healing 3 credits**  
Concepts of illness, wellness, and healing reflect the societies and cultures in which they are found. Compares ways in which a variety of Western (e.g., France, Germany, United States) and non-Western (South American, African) societies and cultures think about and institutionalize health and illness. Selected topics include: changing health and nutritional status from human prehistory to the present, social and cultural definitions of health and illness, ritual healing practices, ethnomedicine, the relationships of social organization and stratification to health and illness; and the social and personal construction of medical knowledge. Not open to students who have earned credit for Medical Anthropology. Fall of odd years. *Prerequisite(s)*: AN 2210 or SO 2220. (WECO)

**SO4010 Advanced Theory in Criminology 3 credits**  
An examination of the history of criminological theory with special emphasis on how changes in society have influenced the development of theory and at how theory has influenced policy in criminal justice. May be taken as CJ 4010. Spring of even years. *Prerequisite(s)*: CJ 1010 or SO 2220.

**SO4100 Anthropological and Sociological Theory 3 credits**  
Social theory helps us to understand society and how it works. It also provides frameworks for developing methodology for anthropologists and sociologists when conducting research. Looks at the connections between theories and methods (or practice) and analyzes major classical and modern theorists from Durkheim and Weber to Malinowski, Goffman and Geertz. Last offering Fall 2011. *Prerequisite(s)*: AN 2210 or SO 2220. (WRCO)

**SO4410 Methods of Social Research 3 credits**  
See AN 4410 for course description. Falls. *Prerequisite(s)*: MA 2300 or SS 3700 or SW 3700.

**SO4600 Seminar: Theory and Practice 4 credits**  
Capstone course for majors; provides an overview of sociological methodology and theory. Heavily emphasizes research and the practical applications of sociology. Springs. *Prerequisite(s)*: (AN 4400 or SO 4400) and junior or senior standing as a major. (WRIT) (WRCO)

**SO4610 Internship 1-12 credits**  
Students engage in work programs and thereby apply knowledge gained from major and minor courses, areas, or concentrations. Qualifications to be an intern are determined by the Department Chair and a faculty member who acts as a supervising professor. Once placed, student interns have both an immediate supervisor and a supervising professor. With permission.

**SO4910 Independent Study 1-3 credits**  
Provides a more intense background in some aspect of sociology through reading and research, supplementing previous courses or broadening the student's knowledge in some subject area not presently covered by SO courses. Consent required of the instructor who will supervise the independent study and the Department Chair.

## SP—Spanish

The Global Perspective (1986–2005 General Education requirement) is satisfied *either* by completing one of the following sequences:

SP 1010 and SP 1020

SP 1020 and SP 2010

SP 1110 and SP 1120

SP 2010 and SP 2020

or by completing a departmental proficiency test and one semester at the Intermediate II level (SP 2020).

### SP1010 Fundamentals of Spanish I 4 credits

Open to students with no more than one-year of high school Spanish, or with no previous study of Spanish. An introductory course with three regular class meetings per week with the instructor and a lab session with a supplementary instructor on intervening days. Emphasis on oral communication skills. Language in a cultural setting is emphasized throughout the year. Conducted in Spanish. Falls. *Corequisite(s)*: SP 1900. (DICO)(GACO)

### SP1020 Fundamentals of Spanish II 4 credits

Continuation of SP 1010 with increased attention to reading and writing. Conducted in Spanish. Springs. *Prerequisite(s)*: SP 1010 or equivalent. *Corequisite(s)*: SP 1905. (DICO)(GACO)

### SP1060 Conversational Spanish I 3 credits

An introductory Spanish course for beginning students. Two regular class meetings per week. Emphasis on vocabulary building, basic grammar structures and oral fluency. Contemporary readings and discussions with parallel oral and written grammar review. Conducted in Spanish. Falls. (DICO)(GACO)

### SP1070 Conversational Spanish II 3 credits

A continuation of SP 1060. Two regular class meeting per week. Emphasis on vocabulary building, grammar structures and oral fluency. Conducted in Spanish. Springs. *Prerequisite(s)*: SP 1060 or equivalent.

### SP1110 Continuing Spanish I 4 credits

An initial Spanish course for continuing students (no more than two years of high school study). A course with three regular class meetings per week with the instructor and a lab session with a supplementary instructor on intervening days. Emphasis on consolidating fundamental skills for oral fluency, reading comprehension and accurate composition. Contemporary readings and discussion with parallel oral and written grammar review. Conducted in Spanish. Falls. *Corequisite(s)*: SP 1910. (DICO)(GACO)

### SP1120 Continuing Spanish II 4 credits

A continuation of SP 1110. Conducted in Spanish. Springs. *Prerequisite(s)*: SP 1110 or equivalent. *Corequisite(s)*: SP 1915. (DICO)(GACO)

### SP1900 Fundamentals of Spanish I–Lab 0 credit

Lab sessions in the Language Learning Resource Center (Hyde 221) with a supplementary instructor for review practice, and completion of course assignments. Falls and Springs. *Corequisite(s)*: SP 1010.

### SP1905 Fundamentals of Spanish II–Lab 0 credit

Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: SP 1020.

### SP1910 Continuing Spanish I–Lab 0 credit

Lab sessions in the Language Learning Resource Center (Hyde 221) with a supplementary instructor for review practice, and completion of course assignments. Falls and Springs. *Corequisite(s)*: SP 1110.

### SP1915 Continuing Spanish II–Lab 0 credit

Lab sessions in the Language Learning Resources Center (Hyde 221) with a supplementary instructor for review practice and completion of course assignments. Springs. *Corequisite(s)*: SP 1120.

### SP2010 Intermediate Spanish I 4 credits

Enhancement of Spanish skills. For students with sufficient control of Spanish fundamentals. Vocabulary building. Oral and written grammar review, selected literary and cultural readings. Conducted in Spanish. Falls. *Prerequisite(s)*: no more than three years of high school Spanish, or one year of university first-year Spanish. (DICO)(GACO)

### SP2020 Intermediate Spanish II 4 credits

Continuation of SP 2010. Conducted in Spanish. Springs. *Prerequisite(s)*: SP 2010 or equivalent. (DICO)(GACO)

### SPDI2100 Modern Latin American Literature in Translation 3 credits

Offers the opportunity to read literature of modern Latin America through translation into English. Students are encouraged to explore translations and subsequent film productions that bring an added dimension of understanding oneself and how language's interpretation and translation are greatly affected by internal and external ideas and experiences. Students read and discuss translations of short stories and novels that had been written originally in Spanish or

Portuguese, and view selected films based on Latin American literary works. Readings, films, and online discussions are in English. Not open to students who have earned credit for SP 3100. (SSDI)

### SP3030 Advanced Spanish 3 credits

One-semester sequel to Intermediate Spanish or for advanced placement of incoming students. Review of all skills with attention to vocabulary expansion and the introduction of more sophisticated grammatical constructions. Development of composition and communication skills and preparation for reading authentic texts of diverse types. Students compare and contrast the role of technology in our culture with that of various countries of the Spanish-speaking world. Hands-on experience using current technologies to present and archive student work. Conducted in Spanish. Falls. (GLOB)(GACO)(TECO)

### SP3050 Spanish for Criminal Justice I 4 credits

For students who wish to enhance their Spanish skills within the context of the criminal justice environment. Objectives include attaining advanced level oral proficiency by developing the student's ability to create with the language, to participate in conversations, to ask and answer questions by using specialized law enforcement vocabulary in Spanish. Grammatical accuracy is sought through a selective review of basic constructions. Conducted in Spanish. Fall of odd years. *Prerequisite(s)*: minimum of four years of high school Spanish or completion of college-level (2000 level) intermediate Spanish. (DICO)(GACO)

### SP3060 Spanish for Criminal Justice II 4 credits

A continuation of SP 3050. Spring of even years. *Prerequisite(s)*: SP 3050. (DICO)(GACO)

### SP3120 Spanish Culture and Civilization 3 credits

Investigates the culture and civilization of Spain. Conducted in Spanish. Unscheduled. (GLOB)

### SP3140 Spanish American Culture and Civilization 3 credits

Investigates the culture and civilization of Spanish America. Conducted in Spanish. Unscheduled. (GLOB)

### SP3170 Spanish for Social Services 3 credits

Students increase their oral and written proficiency in Spanish by developing their ability to communicate through the use of specific vocabulary related to social services. Participation in role-play situations, debates and short individual/group oral presentations. Service-learning component, including a writ-



ten journal and final presentation, to tie in with classroom study. Conducted in Spanish. Spring of odd years. (DICO)(GACO)

**SP3190 Spanish for Business 3 credits**  
Students increase their oral and written proficiency in Spanish by developing their ability to communicate through the use of specific vocabulary related to the world of business. Participation in role-play situations, debates and short individual and group oral presentations. Class project requires students to research how a local company does business as opposed to one specifically targeting Spanish-speaking populations in the United States or abroad. Includes a final presentation, to tie in with classroom study. Conducted in Spanish. Unscheduled. (DICO)(GACO)

**SP3220 Advanced Spanish Composition 3 credits**  
Attention to developing clarity, accuracy and proficiency in written composition. From guided writing by models to free expression. Conducted in Spanish. Springs. (WRIT) (WRCO)

**SP3250 Ibero-American Women in Literature, Art, and Film 3 credits**  
A study of images of women through the ages in Spain and the Americas, as a way of better understanding Spanish and Latinoamerican cultures as a whole. Taught in Spanish. Unscheduled.

**SP3330 Spanish Conversation 3 credits**  
Attention to organization and presentation of oral expression as well as accuracy and fluency in discussion and repartee. Conducted in Spanish. Falls.

**SP4200 Survey of the Literary Masterpieces of Spain I 3 credits**  
An overview of the literary movements and representative works of principal authors from Spain, from the beginnings of medieval Spanish literature (the 11th century) to the end of the golden age (the end of the 17th century). Conducted in Spanish. Not open to those who have earned credit for SP 3200. Fall of even years.

**SP4210 Survey of the Literary Masterpieces of Spain II 3 credits**  
An overview of the literary movements and representative works of principal authors from Spain from the 18th, 19th, 20th, and 21st centuries. Conducted in Spanish. Spring of odd years. *Prerequisite(s)*: SP 4200.

**SP4310 Golden Age Literature 3 credits**  
To familiarize students with some of the works representative of the development of the literary genres and the creative genius of one of the peaks of Spanish civilization. Conducted in Spanish. Unscheduled. (WRIT)

**SP4400 Survey of the Literary Masterpieces of Spanish America I 3 credits**  
An overview of the literary movements and representative works of principal authors from Spanish America, from indigenous literature to literature of the mid 19th century: Nationalism, Romanticism, and Modernism. Conducted in Spanish. Not open to those who have earned credit for SP 3300. Fall of even years.

**SP4410 The Spanish Novel 3 credits**  
A history of the Spanish novel from 1500 to the present. Conducted in Spanish. Unscheduled. (WRIT)

**SP4420 The Spanish Drama 3 credits**  
A history of the Spanish drama from its beginning through its Golden Age to the present. Conducted in Spanish. Unscheduled. (WRIT)

**SP4450 Survey of the Literary Masterpieces of Spanish America II 3 credits**  
An overview of the literary movements and representative works of principal authors from Spanish America from Modernism to the 21st century. Conducted in Spanish. Spring of odd years. *Prerequisite(s)*: SP 4400.

**SP4500 Spanish Seminar 3 credits**  
Open to especially proficient and interested students of Spanish who have the initiative for independent study and seminar discussion. Complementing previous study, the approach is by writer studied in depth and by comparative literature techniques in contrast to the chronological and survey pattern of prior study. Conducted in Spanish. Occasionally. (WRIT)

**SP4910 Independent Study 1-3 credits**  
Emphasis may be in either literature or language. Consent required of the instructor who will supervise the independent study and the Department Chair.

## SS—Social Science

**SS2500 Social Studies Methods: 5-12 3 credits**  
Provides students who are preparing for the teaching profession with an introduction to social studies education methods and planning. Students learn to design lesson plans, units of study, rubrics and tools of assessment for one area of social studies concentration. They also learn to critique curriculum materials, design pedagogical objectives, define their teaching philosophy (rationale) and develop classroom management techniques. Gives students the opportunity to observe and participate in social studies classes offered in local middle and secondary schools. Springs. *Prerequisite(s)*: acceptance into Teacher

Certification Candidacy and permission of the instructor.

**SS3480 History of Science 3 credits**  
See NS 3480 for course description. Perspectives integrated: HIST, SCIE. Falls and Springs. *Prerequisite(s)*: junior status. (INTG)(INCO)

**SS3620 Archaeological Field Methods: Prehistory 2-9 credits**  
Depending on the investigative circumstances, provides an opportunity to acquire field experience—survey, mapping, excavation, material analysis—at land or underwater sites from the Prehistoric period. Division of Continuing Education only. Summers.

**SS3630 Archaeological Field Methods: Historical 2-9 credits**  
Depending on the investigative circumstances, provides an opportunity to acquire field experiences—survey, mapping, excavation, material analysis—at land or underwater sites from the Historical period. Division of Continuing Education only. Summers.

**SS3640 Archaeological Field Methods: Nautical 2-9 credits**  
Depending on the investigative circumstances, provides an opportunity to acquire field experience—survey, mapping, excavation, material analysis—at land or underwater sites. Division of Continuing Education only. Summers.

**SS3700 Social Statistics 3 credits**  
Introduces the Social Science student to the importance and uses of Statistics in disciplines such as History, Geography, Sociology, Anthropology, Social Work and Political Science. Focuses on a beginning level understanding of probability, descriptive statistics and inferential statistics using applied examples from Social Science disciplines. Students are also introduced to computer applications for Social Science Statistics. May be taken as SW 3700. Springs. *Prerequisite(s)*: Mathematics Foundations. (QUAN)(QRCO)

**SS3910 Internship 1-6 credits**  
Students engage in work programs and thereby apply knowledge gained from major or minor course areas or concentrations. Qualifications to be an intern are determined by the Department Chair and a faculty member who acts as a supervising professor. Once placed, student interns have both an immediate supervisor and a supervising professor.

**SS4350 Social Studies Theory and Practice: 5-12 3 credits**  
Serves as the capstone experience for the Social Studies Teacher Certification Option. Students have an opportunity to learn and apply social studies theory to the experience gained in previous courses, developing



methodology and presentation skills needed to prepare for the student teaching experience. Students develop and present interdisciplinary lessons and units, integrating the skills and content of the various disciplines encompassed in the social studies as outlined in the New Hampshire Social Studies Framework and NCSS Standards. Students complete at least 20 hours in a classroom setting, actively participating in Social Studies classes in a middle or secondary school. Falls. *Prerequisite(s)*: SS 2500 and permission of instructor.

**SS4850 Social Studies Student Teaching: 5-12 12 credits**

The culminating field-based clinical experience for all students completing the Social Studies Teacher Certification (5-12) option of the BS Social Science major. It is a continuous, full-time (five days per week) experience of 12 credits during which, after a period of structured observation, teacher candidates gradually assume responsibility for a full range of Social Studies teaching activities encountered in a middle or high school situation, thereby demonstrating the appropriate professional skills and attitudes essential for successful teaching of diverse populations of students. Student Teaching is conducted under the supervisory guidance of School Faculty and Plymouth State Clinical Faculty in Social Science. Required periodic seminars complement the experience. Falls and Springs. *Prerequisite(s)*: minimum 2.50 cumulative GPA; completion of all other curricular requirements in Social Studies Teacher Certification (5-12) Option by the beginning of the student teaching experience; permission of the Coordinator of Teacher Certification and Clinical Experiences.

**SS4910 Independent Study 1-3 credits**  
Consent required of the instructor who will supervise the independent study and the Department Chair.

**SS4994 Community Research Experience 4 credits**  
Engages students in experiential learning about the challenges of working in interdisciplinary teams and perspectives. Provides students with opportunities to research significant issues of local or regional scale using multiple perspectives in a collaborative. Each spring one or more research teams are formed to conduct a project often developed in cooperation with an NGO or government agency to meet the needs of that organization and/or a community in the region. The projects are not theoretical or broad in scope, but rather focused on the kinds of problems that graduates might expect to face. Springs. *Prerequisite(s)*: permission of the instructor.

## SV—Study Abroad: Mexico

**SV1030 Regular Spanish Program 4 credits**  
Individualized instruction in a small-size class environment. A total immersion experience for beginning students. Offered through Plymouth's Study Abroad Program in Cuernavaca, Mexico. Four weeks at this program is equivalent to a one-semester course at PSU and can be used to complete one half of the BA language requirement; can fit either the SP 1010-1020 or the SP 1110-1120 sequence. Please see the Languages and Linguistics Department Chair for information on this program. Winterim or Summer.

**SV3000 Advanced Spanish Program 4 credits**  
Individualized instruction in a small-size class environment. A total immersion experience for students beyond the beginning level. This course is offered through Plymouth's Study Abroad Program in Cuernavaca, Mexico. Four weeks at this program is equivalent to a one-semester course at PSU, can be used to complete one half of the BA language requirement and can be applied to the Spanish major or minor; can fit the SP 2010-2020 sequence or above. Please see the Languages and Linguistics Department Chair for information on this program. Winterim or Summer.

## SW—Social Work

**SW2050 Introduction to Social Welfare Policy 3 credits**  
Introduces students to the history and conceptions of social welfare and the role of government in the U.S. in meeting basic human needs and promoting human development. Unscheduled. (SPSY)

**SW2200 Introduction to Social Work 4 credits**  
Introduces students to the history, practice, values and perspective of social work. Provides an overview of social problems and social services for different populations with an emphasis on advancing social and economic justice. Students participate in an observational service learning component (2 hours/week or 30 hours/semester) arranged individually with the instructor. Falls and Springs. (SPSY)

**SW2500 Human Biology for Social Workers and the Social Sciences 3 credits**  
Gives students a basic understanding of human biology and how it relates to human behavior and the social environment. Integrates social work theory with human biology theory and helps students understand the role of human biology in social work's biopsychosocial perspective. Falls.

**SW3050 Perspectives on Aging 3 credits**  
Examines concepts of aging, the aging process and its impact on individuals, families and society, and differences and disparities in aging by race, class and gender. Students examine demographic trends, as well as physical, social and emotional changes associated with aging. Political and economic issues of aging and older adulthood in modern society are also considered from both an historical and contemporary perspective. Springs. (WECO)

**SW3100 Child Welfare and Family Services 3 credits**  
Provides an overview of the development of the child welfare system in the U.S. from institutional care in the 1800s to the current system of supportive, foster care, adoption and protective services. Emphasizes the economic condition of children and families that underlie the problems of child welfare. Reviews the organization and delivery of child welfare services in NH. Falls and Springs.

**SW3150 Child Maltreatment 3 credits**  
A critical examination of the etiology of child maltreatment. Explores causality, interventions to prevent or remedy child maltreatment, abuse, neglect, family violence and psychological maltreatment. Considers oppression, poverty and cultural factors relevant to child maltreatment. Springs.

**SW3250 Families, Schools, and Community 3 credits**  
Focuses on family systems (functions, stages and types) and their interface with school and community (functions, types, issues). Examines problems and issues, including effective parenting, abuse and neglect, substance abuse, juvenile delinquency and insufficient family supports and resources. Provides overview of role of schools and communities in promotion of healthy families and considers models for prevention, assessment, intervention, and evaluation. Falls.

**SW3300 Mental Health and Society 3 credits**  
Examines current issues and problems in mental health, mental illness and health care delivery from a domestic and global perspective. Studies the impact of social life, including culture, social class, race and ethnicity, gender and age on physical and emotional health. Studies the history and current status of mental health care and service delivery in the United States and other nations. Addresses cross-cultural issues and challenges, epidemiological trends, treatment methods and interventions and mental health outcomes. Springs. (GACO)

**SW3340 Human Behavior and the Social Environment I 3 credits**

The study of human behavior as it influences and is influenced by the social environment, including factors such as race, age, social class, gender and geographic location. Provides an understanding of the impact of these factors from birth to adolescence. A social systems model is used to study the impact of these influences on individuals, families, groups, organizations and community. Open to majors and Interdisciplinary majors with Social Work as one area of concentration, or permission of the instructor. Falls. *Prerequisite(s)*: PS 2010, SO 2220, SW 2200 and SW 2500.

**SW3350 Human Behavior and the Social Environment II 3 credits**

The study of human behavior as it influences and is influenced by the social environment, including factors such as race, age, social class, gender and geographic location. Provides an understanding of the impact of these factors from adolescence to old age. A social systems model is used to study the impact of these influences on individuals, families, groups, organizations and community. Open to majors and Interdisciplinary majors with Social Work as one area of concentration, or permission of the instructor. Springs. *Prerequisite(s)*: SW 2200, SW 2500, PS 2010, SO 2220.

**SW3440 Topics in Social Work 3 credits**

Specialized topics in social welfare and social work not normally covered in depth in other Social Work courses. Possible topics include: substance abuse, income maintenance, administration, school social work. Course may be repeated with a different topic. Occasionally. *Prerequisite(s)*: SW 2200.

**SW3450 Social Welfare Policy and Services 3 credits**

The study of major social welfare policies (income maintenance, health care, employment, social services) in the United States. Policies and services reviewed in historical perspective. Falls. Open to majors and Interdisciplinary majors with Social Work as one area of concentration, or permission of the instructor.

**SW3460 Human Diversity and the Social Environment 3 credits**

The study of human behavior as it influences and is influenced by cultural and social diversity. Helps students develop an understanding and appreciation for human diversity. Provides an orientation to culturally-sensitive social work practice. Gives special attention to the consequences of prejudice and discrimination, especially for people of color, women and gay/lesbian individuals. Open to majors and Interdisciplinary majors with Social Work as one area of concentration, or permission of

the instructor. Unscheduled. *Prerequisite(s)*: SW 3340 or SW 3350. (DICO)

**SW3500 Health and Society 3 credits**

Examines current issues and problems in health, illness and health care delivery from a domestic and global perspective. Studies the impact of social life, including culture, social class, race and ethnicity, gender and age on physical and emotional health. Examines illness in developing countries, disparities in the health of populations and health care systems and policies in other nations. Falls. (GACO)(WECO)

**SW3510 Theory and Practice of Social Work Intervention I 3 credits**

The application of social work theory in micro practice contexts. Generalist social work practice skills, knowledge and values as applied to individuals and families. Use of problem solving approach with attention to engagement, contract, intervention and termination in a professional relationship. Falls. *Prerequisite(s)*: open to Social Work majors only; SW 2200.

**SW3520 Theory and Practice of Social Work Intervention II 3 credits**

The application of social work theory in mezzo (group) practice contexts. Knowledge of group work as applied within agency and community contexts. Springs. *Prerequisite(s)*: SW 3510; open to Social Work majors only.

**SW3530 Theory and Practice of Social Work Intervention III 3 credits**

The application of social work theory in macro contexts. Knowledge of community development and organization as applied within agency and community contexts. Falls. *Prerequisite(s)*: SW 3510 and SW 3520; open to Social Work majors only.

**SW3700 Social Statistics 3 credits**

See SS 3700 for course description. Springs. *Prerequisite(s)*: Mathematics Foundations. (QUAN)(QRCO)

**SW3800 Social Work Internship 1-9 credits**

The internship engages students in workplace settings and provides an opportunity to learn about various fields of practice. Individually arranged with instructor who will supervise internship. Does not fulfill requirements of Social Work Practicum courses (SW 4430, SW 4440, SW 4450, SW 4460, SW 4470). Letter graded. Repeatable for credit. Division of Continuing Education. Summer or Winterim. *Prerequisite(s)*: junior or senior status and permission of the Department Chair.

**SW4000 Social Work Research Methods 3 credits**

Helps students develop an understanding of and appreciation for an empirical approach to building knowledge for practice and evaluat-

ing the delivery of services. Content includes quantitative and qualitative methodologies, data analysis, evaluation of practice, analysis and evaluation of research reports and a review of relevant technological advances. Springs. *Prerequisite(s)*: SW 2200 and (MA 2300 or SS 3700 or SW 3700).

**SW4430 Social Work Practicum 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. Placement occurs in senior year; taken concurrently with SW 4550. Practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit cannot be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment cannot qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4440 Social Work Practicum: Child and Family Services 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. This practicum is for students in the Child and Family Services Option and includes settings that provide services for child protection, runaway and homeless youths, homeless families, foster care, home finding, child care, domestic violence, school social work, rape crisis services, teen pregnancy and juvenile justice. Placement occurs in the senior year; taken concurrently with SW 4550. The practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit cannot be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment cannot qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4450 Social Work Practicum: Health Services 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. This practicum is for students in the Health Services Option and includes hospitals, hospices, medical

clinics, including family planning clinics and neighborhood clinics, health maintenance organizations (HMO's), nursing homes and health organizations. These settings fall under public, private-nonprofit and for-profit auspices. Diverse services are provided such as maternal and child health services, hospital discharge planning, hospice care, AIDS clinics and support groups related to specific diseases. Placement occurs in the senior year; taken concurrently with SW 4550. The practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit cannot be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment cannot qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4460 Social Work Practicum: Aging Services 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. This practicum is for students in the Aging Services Option and includes hospitals, nursing homes, hospices, retirement communities, family service agencies, state departments of aging and area agencies on aging. Services include long-term care, recreation and quality of life activities, death and dying counseling, adult daycare, nutrition services, housing, adult foster care, case management and adult protection. Placement occurs in the senior year; taken concurrently with SW 4550. The practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit cannot be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment cannot qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4470 Social Work Practicum: Mental Health Services 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. This practicum is for students in the Mental Health Services Option and includes community mental health centers, family and child ser-

vice agencies, inpatient psychiatric facilities, employee assistance programs, Veterans Administration hospitals and inpatient/outpatient psychiatric units of public/private hospitals. Mental Health social workers frequently work as part of a team composed of a psychiatrist, social worker, psychologist and nurse. Placement occurs in the senior year; taken concurrently with SW 4550. The practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit cannot be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment cannot qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4480 Social Work Practicum: Social Services for Spanish Speaking Communities 12 credits**

The practicum engages students in 450 hours of supervised social work practice and provides opportunities to apply classroom learning in the field setting. This practicum is for students in the Social Services for Spanish Speaking Communities Option. Students must complete their practicum in an agency that provides services to Latinos and incorporate cultural awareness and knowledge of Spanish-speaking communities in their field experience. Placement occurs in the senior year; taken concurrently with SW 4550. The practicum is arranged on an individualized basis in consultation with the faculty Field Education Director. Students are required to pay a liability insurance fee. Transfer credit can not be applied to the Practicum. Paid field placements are prohibited. In special circumstances, with the permission of the Field Education Director, students may secure a stipend or scholarship from the field agency. Existing paid employment can not qualify as a field placement. For majors only. Pass/No Pass. Springs. *Prerequisite(s)*: permission of Field Education Director. *Corequisite(s)*: SW 4550.

**SW4550 Social Work Seminar 3 credits**

The Seminar facilitates the integration of the knowledge-skills-and-values-base of the profession gained from the Social Work foundation and helps students make the transition into the profession. Transfer credit cannot be applied to the Seminar. For majors only. To be taken in the senior year. Springs. *Prerequisite(s)*: minimum grade of C in required Social Work (SW) foundation courses (SW 2200, SW 3340, SW 3350, SW 3450, SW 3510, SW 3520, SW 3530, SW 4000); minimum GPA of 2.50 in courses required for the major. (WRIT)(WRCO)

**SW4910 Independent Study 1-3 credits**

Provides students with specialized knowledge in an area of social work practice not covered in available courses or relating to a student's special interests. Consent required of the instructor who will supervise the independent study and the Department Chair.

## TH—Theatre

**THDI1300 The Theatrical**

**Experience 3 credits**

An introduction to the appreciation of the theatrical experience and the dramatic arts as creative expression. Gives the student a sense of the integration of theatre and life, guides the student in understanding various types of plays and introduces the student to the background, theories and methods involved in the practice of making theatre art. Attending and critiquing PSU student productions are required. Culmination is the creation and development of productions written, directed, designed and performed by the students. Falls and Springs. (CTDI)

**TH1600 Introduction to Theatre 3 credits**

Appreciation of the many arts involved in play production from the audience point of view. Script, theatre structure, scenery, costume, lighting, makeup, acting and directing studied against the historical background of the theatre. Not a performance course. Falls. (ARTS)

**TH1650 Practicum in Production 1 credit**

Practical applications and an extension of theory and technique covered in theatre courses in production. Experiences include all aspects of theatre production. Offered by individual enrollment. May be repeated for credit. Pass/No Pass. With permission.

**TH2100 Technology for Theatre Professionals 3 credits**

How to use computers and the internet to facilitate career development and functionality within the theater industry. Springs. *Prerequisite(s)*: TH 1600 (TECO)

**TH2230 American Musical Theatre 3 credits**

American Musical Theatre, a unique art form combining script, music, lyrics and dance, found its roots in European musical and dramatic traditions and its inspiration and voice in the diverse fabric of humanity that defines the United States. With operetta as its basis, musical theatre developed into a form that embraced the musical, cultural and societal differences of the United States. Focusing on dramatic themes, musical styles, dance innovations and the artistic elements of musical theatre, explores the artists, producers and audiences that reflected the changing viewpoints, beliefs

and lifestyles of the nation. Falls and Springs. *Prerequisite(s)*: EN 1200. (ARTS)(WRIT)(DICO)(WRCO)

**TH2260 Voice and Diction I 3 credits**  
Beginning course in principles and practices of vocal production and speech. Techniques of breath support and control as well as on articulation. Introduction to the International Phonetic Alphabet. Students learn to analyze their own voice and speech patterns and to make necessary corrections. Falls.

**TH2500 Stagecraft Fundamentals 3 credits**  
An introduction to the planning and logistics of scenery construction techniques. Includes the choosing and budgeting of materials; electricity and lighting; the interpretation and engineering of theatrical working drawings; the actual implementation of scenery. Falls and Springs. (QUAN)(QRCO)

**TH2540 Introduction to Theatre Design 3 credits**  
Basic design course for all Theatre majors and others interested in the field. Curriculum consists of an overview of the design process from initial play reading and discussions with the director through the execution of the final design. Utilizing various scripts, students learn to research, to "rough out" ideas, to express those ideas through drawings and models and to implement design concept. Falls.

**TH2600 Fundamentals of Costume Construction and Design 3 credits**  
An introduction to the fundamentals of costume construction and design. Topics include costume shop organization and scheduling, costume budgeting, hand and machine sewing, cutting, draping, fitting, alterations, theatrical makeup and costume accessories. Students become familiar with the basic tools and materials involved in this area. There is practical application of skills learned. Falls and Springs.

**TH2720 Acting I 3 credits**  
In this first-level course, emphasis is placed on acting for the theatre, including work in the areas of physical control, vocal production, sensory awareness, the development of the creative imagination, ensemble work, improvisation, script analysis, characterization and scene study. Designed to enhance personal development and creativity, as well as to train students in the basic skills of theatrical performance. Thus, Acting I is appropriate for general students, while it is necessary for students who wish to pursue further theatre study. Falls. (ARTS)

**TH2960 World Drama 3 credits**  
Reading and discussion of significant plays in Western literature, from the Greeks to the present. The plays are viewed within their historical and social contexts, with an emphasis on the relationship between their literary and theatrical forms. Fall of even years. (LITY)

**TH3160 Stage Movement 2 credits**  
Emphasis on relaxation, posture, balance and alignment, rhythm, strength and flexibility. Movement as an element of characterization. Some basic dance steps and patterns introduced, although students need not be 'dancers' to enroll in this course. Falls.

**TH3170 Musical Theater Singing Techniques 2 credits**  
A survey of Musical Theatre song literature and a workshop in Musical Theatre singing techniques and styles. Students are assigned repertory appropriate to their current level and prior experience. In-class performance is an important element. Ability to read music not essential but helpful. May be taken as MU 3170. *Prerequisite(s)*: permission of the instructor.

**TH3210 Script Analysis 3 credits**  
Fundamental analysis course to develop skills needed to interpret dramatic material for direction, performance and design. Investigation of thought process involved in discovering the structure of script and in breaking it down in terms of Action, Objective and Motivational Units. Preparatory to transforming a script from page to production. This course is a prerequisite for all directing courses. Falls. *Prerequisite(s)*: Theatre majors only.

**TH3270 Voice and Diction II 3 credits**  
Continuation of Voice and Diction I. Particular attention paid to intonation patterns and coloration as well as to dialects. Intensive work to correct individual and regional speech patterns and to extend range, flexibility and vocal power. Spring of even years. *Prerequisite(s)*: permission of the instructor.

**TH3300 Design for the Theatre (Topics) 3 credits**  
Students examine various areas of theatrical design (principally scenic, lighting and costume design). Depending upon the specific "topic" covered by this course during any given semester, students investigate the relationship between theory and practice, developing expertise in the appropriate techniques and methods involved. Examples of topics might include: scene design (model making, drafting, painting, design for musical theatre); lighting design (lighting for dance, design for arena theatre, lighting for outdoor theatre); costume design (period costuming, rendering techniques). May be repeated for no more

than 12 credits. Occasionally. *Prerequisite(s)*: permission of the instructor.

**TH3310 Theatre Technology: Topics 3 credits**  
An introduction to areas of Theatre Technology and Production Crafts. Topics covered might include: scene painting, advanced costume crafts and production problems in electrics and audio. The purpose of this series is to enable a student to execute a specific product idea based on a theatrical design. May be repeated up to 12 credits. Occasionally. *Prerequisite(s)*: permission of the instructor.

**TH3340 Writing for Performance (Topics) 3 credits**  
Each topics course provides in-depth study and application of writing skills for specific venues. Topics covered include playwriting, screenwriting, writing adaptations and libretto development. May be repeated with a different topic. Occasionally. *Prerequisite(s)*: EN 1200, TH 1600 and permission of the instructor.

**TH3400 Stage Management 3 credits**  
An introductory course intended to familiarize students with the operation and organization of theatrical production. Examines the organizational, management, interpersonal and documentation skills necessary for planning, rehearsing, touring and performing a play. Occasionally.

**TH3410 Dramatic Literature and Criticism (Topics) 3 credits**  
Topics not covered in other theatre literature courses including areas such as modern European drama, women's voices in the theatre, German docudrama and gay and lesbian theatre as well as an in-depth study of specific playwrights such as Aristophanes, August Strindberg, Henrik Ibsen and David Mamet. May be repeated with a different topic. Occasionally. *Prerequisite(s)*: TH 1600.

**TH3670 Advanced Practicum in Production 1-3 credits**  
Practical applications and an extension of theory and technique covered in theatre courses in production. Experiences include technical and/or design work. Offered by individual enrollment. May be repeated for credit. With permission.

**TH3900 Acting II 3 credits**  
Techniques of rehearsal, script analysis, role research and ensemble performance. Course consists of rehearsal and performance of short plays or cuttings from longer scripts. Acting II is a required course for students wishing to continue in the Performance Option. Open to the general PSU student population. Springs. *Prerequisite(s)*: students must audition and receive permission of the instructor.



**TH3930 American Drama 3 credits**  
American Drama developed mirroring its first cousin English Drama. Slowly the American dramatists developed a unique voice, defining our nation's beliefs, issues and mores as well as its drama. Starting with America's first indigenous plays and concluding with contemporary works, investigates the 250 year history of changing viewpoints, beliefs and life-styles of our diverse nation. Spring of odd years. *Prerequisite(s)*: EN 1200. (WRIT) (DICO)(WRCO)

**TH3950 Acting: Topics 1–3 credits**  
An in-depth study of selected acting styles. The purpose of this series is to give students the opportunity to learn various specific acting techniques not taught in the basic acting sequence. Topics covered might include audition techniques, Absurdist acting technique, commedia, chamber theatre and movement theatre. May be repeated for no more than 12 credits. Occasionally. *Prerequisite(s)*: TH 3900 and permission of the instructor.

**TH4410 Theatre Internship 3–12 credits**  
The Theatre Internship is an opportunity for students to gain meaningful work experience by applying the knowledge and skills learned in course work to on-the-job assignments in host organizations. Includes self-assessment, the design of a learning contract, reflection, synthesis and assessment. The internship is a supervised assignment for a prescribed number of working hours. Internships are established and supervised by the internship advisor. Repeatable for up to 12 credits. Enrollment for internships must be completed during the first two weeks of the registration period. *Prerequisite(s)*: junior status; must be taken before the semester immediately prior to graduation; departmental approval; minimum 2.50 cumulative GPA.

**TH4510 Theatre History I 3 credits**  
The study of the history of the theatre from its origins to the 18th century. Discussion of the significant elements of theatrical art, including production methods; acting styles; design components; influential dramatists, directors and theorists; and theatre architecture. Theatre is viewed from the broader historical perspective with an emphasis on its role in individual societies, the composition of its audiences and methods used to analyze and classify various movements and periods. Fall of odd years. *Prerequisite(s)*: TH 1600.

**TH4520 Theatre History II 3 credits**  
The study of the history of the theatre from the Romantic Period to the present day. Discussion of the significant elements of theatrical art including production methods; acting styles; design components; influential dramatists, directors and theorists; and theatre architecture. Theatre is viewed from the broader historical perspective with an emphasis

on its role in individual societies, the composition of its audiences and methods used to analyze and classify various movements and periods. Spring of even years. *Prerequisite(s)*: TH 1600.

**TH4610 Directing for the Stage 3 credits**  
Examines the theory and practice of stage directing. Significant attention is given to the role of the director, to directorial technique and practices, to script analysis and to the director's work with actors. Springs. *Prerequisite(s)*: TH 3210 and junior status. (INCO)

**TH4810 Acting III 3 credits**  
Continuation of Acting I and II. Emphasis on scene work. Beginning characterization and use of more complex linguistic material. Fall of even years. *Prerequisite(s)*: permission of the instructor.

**TH4910 Independent Study 1–3 credits**  
Advanced work in specialized area of interest, selected and pursued in consultation with a faculty advisor. Consent required of the instructor who will supervise the independent study and the Department Chair.

## TMP–Tourism Management and Policy

**TMP2750 Introduction to Travel and Tourism 3 credits**  
Designed to provide an overview of the processes that shape global travel and tourism patterns and their consequences. Falls. (GACO)

**TMP2850 Tourism/Hospitality Practicum 1 credit**  
Exposes students to the inner workings of tourism destinations, attractions, and accommodations. Following a preliminary course meeting to review the travel and tourism industry, students schedule pre-approved (i.e., by the instructor) appointments and meet with owners or general managers of a destination, an attraction, and an accommodation. Students complete a written and an oral report about each site visit. Springs. *Prerequisite(s)*: TMP 2750, TMP majors with a minimum 2.50 major GPA, and permission of the instructor.

**TMP3000 Topics in Hospitality and Tourism Management 3 credits**  
Focuses upon current issues that are affecting the tourism industry. Among the potential topics are: ecotourism, sustainability, heritage preservation and tourism, and hospitality issues. May be repeated for credit with a different topic. Spring of even years. *Prerequisite(s)*: TMP 2750.

**TMP3750 Tourism Marketing Analysis 3 credits**  
Focuses upon efforts to lure visitors to travel/tourism attractions, events, and accommodations. Students examine the characteristics of private commercial services and activities, then conduct pertinent research and design marketing/promotion strategies. Fall of even years. *Prerequisite(s)*: (GE 2730 or TMP 2750) or BU 2450.

**TMP4000 Tourism Management and Policy Internship 3–12 credits**  
Students engage in an individualized work program (40 hours per credit) at an agency that emphasizes some aspects of tourism planning, marketing or policy formulation. May be repeated for a total of 12 credits. *Prerequisite(s)*: approval of the discipline's Internship Program Coordinator; 2.50 grade point average in all TMP courses.

**TMP4750 Tourism Planning and Development 3 credits**  
Examines the phenomenon of tourism development at the community and sub-state regional scales, as well as planners' efforts to mitigate negative impacts. Presents an objective viewpoint of developers' and planning boards' motivations and actions. Using a series of empirical case studies, class members have an opportunity to evaluate the actions of the respective groups. Class members apply the techniques they have learned to address the tourism development issues of a community in northern New England. Spring of even years. *Prerequisite(s)*: EPL 2100 and TMP 2750. *Corequisite(s)*: EPL 3100.

## WS–Women's Studies

**WSD12500 The F Word: Feminism in the United States 3 credits**  
Focuses on the development of United States feminism and feminist theory, the lives and work of American women and the significance and meaning of "sex" and "gender" at different periods in American history. In this interdisciplinary course, students read essays from cultural studies, biology, history, philosophy, political theory, literature, psychology and view films and artwork. Central questions include: What does "Women's Lib" have to do with our world today? Is "feminism" something to believe in or something to do? How does gender affect your understanding of who you are as a person? Through the study of historical accounts, theoretical articles and contemporary issues and representations, foregrounds gender as a lens through which we, as men and women, can understand our society and ourselves in new and useful ways. Falls. (SSDI)



**WS3300 Women and Sport****Cultures 3 credits**

See PE 3300 for course description. Fall of odd years. *Prerequisite(s)*: junior status. (DICO) (WECO)

**WS3500 Topics in Women's****Studies 3 credits**

Surveys a number of Women's Studies topics and will vary in its specific content between offerings. All topics address women's roles in various aspects of society and how past conditions have influenced the present social, political, intellectual and/or economic state of affairs. May be repeated with a different topic for no more than six credits. Spring of odd years.

**WS3510 Women and Their****Environments 3 credits**

Students explore a variety of environments which women create and occupy. In particular, examines questions of how gender influences women's experiences of these environments and how the presence of women changes a particular environment. The environments explored emerge from the perspectives and methodologies of at least four different disciplines and vary from semester to semester. Perspectives integrated: HIST, LITY, SCIE, SPSY. Spring of odd years. *Prerequisite(s)*: junior status. (INTG)(INCO)

**WS4000 Internship 1-15 credits**

A culminating educational experience to apply the knowledge and skills gained from course work. Placements are in an institution, business or agency delivering services to women. Placements are made by the Bagley Center. May be repeated for a maximum of 15 credits. Only three credits may be used to complete the Women's Studies minor. Springs. *Prerequisite(s)*: students must have declared the Women's Studies Minor and completed 12 credits in the Minor to be eligible for an internship.

**WS4010 Women and the****Economy 3 credits**

Provides an in-depth understanding of the facts of the economic gaps between the genders, some theoretical approaches to "explaining" them and the possible policies toward and visions of overcoming them. This is accomplished primarily in the context of the historical experience in the United States and secondarily in the context of the current world experience. Prior completion of MA 2300 is recommended but not required. Fall of even years.

**WS4910 Independent Study 1-3 credits**

Students may elect to undertake a self-directed program of study in order to gain a more comprehensive understanding of the scholarship on women through reading and research. The proposal for this independent

study should be designed in consultation with a Women's Studies faculty member and presented for approval to the Women's Studies Council. The proposal should outline the topic or topics of investigation, tentative reading list and methods of evaluation. The consulting faculty member will serve as the study supervisor and be responsible for grading. Students also have an opportunity for an oral presentation of their study to the Women's Studies Council. Consent required of the instructor who will supervise the independent study and the Women's Studies Council Chair.

**WS4990 Women's Studies Senior****Project 1 credit**

Capstone experience required for all Women's Studies minor students. Students synthesize the knowledge gained from the courses taken as part of the minor. Students work with a Faculty Mentor from the Women's Studies Council to complete the project. Falls and Springs. *Prerequisite(s)*: WS 2500 and permission of the Chair of the Women's Studies Council.

## Directories



# University Administration

## Principal Administrators

### Sara Jayne Steen (2006)

*President; Professor of English*  
BS, Bowling Green State University; MA, The Ohio State University; PhD, Bowling Green State University

### Julie N. Bernier (1988)

*Provost and Vice President for Academic Affairs, 2006; Professor of Athletic Training, 2003 Distinguished Graduate Teaching Award in Education*  
BS, MEd, Keene State College; EDD, University of Virginia

### Richard M. Hage (1975)

*Vice President for Student Affairs, 1986*  
AA, Fulton-Montgomery Community College; BS, MS, State University of New York at Albany

### Stephen Taksar (2008)

*Vice President for Finance and Administration*  
BA, Central Connecticut State University; MEd, Northeastern University; MBA, Providence College

### Steve Barba (2006)

*Executive Director of University Relations*  
BA, Michigan State University

### Sylvia Bryant (2009)

*Executive Director of University Advancement*  
BA, University of Missouri–Rolla; MA, University of Kansas; PhD, University of Washington

## Associate Vice Presidents

### George F. Tuthill (2008)

*Interim Associate Vice President for Graduate Studies*  
BA, Williams College; PhD, Massachusetts Institute of Technology

### H. David Zehr (1985)

*Associate Vice President for Undergraduate Studies, 2009; Professor of Psychology, 2004 Distinguished Teaching Award*  
BA, Pennsylvania State University; MA, University of Dayton; PhD, Kent State University

## Deans

### Nancy Betchart (2006)

*Dean of the Frost School of Continuing and Professional Studies*  
BA, Colorado College; MS, PhD, University of Rochester

### Timothy C. Keefe (1977)

*Dean of Student Affairs, 2002; 1998 Distinguished Professional, Administrative, Technical Staff Award*  
BS, State University of New York College at Potsdam; MEd, Plymouth State College

## Administrative Staff

### Laura L. Alexander (1999)

*Director of Human Resources*  
BS, Michigan Technological University; MBA, Plymouth State College

### Catherine S. Amidon (1999)

*Director, Karl Drerup Art Gallery*  
BA, University of New Hampshire; Diplome d'Etudes Approfondies, Licence and Maitrise, University of Paris I, Panthéon-Sorbonne; Doctorat, University of Paris I, Panthéon-Sorbonne

### John P. Barry (1992)

*Director of the Math Activities Center, 1995; Adjunct Faculty, Mathematics, 2007 Distinguished Adjunct Teaching Award*  
BS, MEd, CAGS, Plymouth State College; EDD, Argosy University

### Amy L. Berg (2007)

*Interim Chief Information Officer, 2008*  
BS, MS, Ball State University

### Patrick Bourgeron (2008)

*Director of the Center for the Environment; Professor of Environmental Science and Policy*  
DUES, Licence, Maitrise; DEA, Doctorate at the University of Paris VII

### Mary E. Campbell (1974)

*Director of Curriculum Support, 1991; 2006 Distinguished Professional, Administrative, Technical Staff Award*  
AA, Massachusetts Bay Community College; BS, Boston State College; MEd, Plymouth State College

### Gail D. Carr (1974)

*Director of Continuing Education, 1993; Adjunct Faculty, Business; 2002 Distinguished Professional, Administrative, Technical Staff Award*  
BS, MEd, CAGS, Plymouth State College

### Patrick F. Cate (2006)

*Interim Director of the College of University Studies (2009); Adjunct Faculty, Business*  
BA, Keene State College; MEd, Plymouth State University

### John P. Clark (1971)

*Director of Athletics, 2001*  
BA, MEd, Plymouth State College

### Frank L. Cocchiarella (1987)

*Director of Residential Life/Dining Services, 2000; 1999 Distinguished Professional, Administrative, Technical Staff Award*  
BS, St. Cloud State University; MEd, Plymouth State College

### William R. Crangle (1995)

*Special Assistant to the President for Environmental Sustainability, 2008*  
BS, Suffolk University

### Creig W. Doyle (2007)

*Chief of University Police*  
BA, The Catholic University of America

### Barbara B. Fahey (1978)

*University Controller, 1987; 1991 Distinguished Professional, Administrative, Technical Staff Award*  
BA, St. Bonaventure University; MBA, Plymouth State College

### Eugene D. Fahey (1975)

*Senior Associate Director of Admissions, 2000*  
BA, MA, St. Bonaventure University

### Thaddeus C. Guldbrandsen (2005)

*Director of the Center for Rural Partnerships; Research Assistant Professor of Environmental Science and Policy*  
BA, University of New Hampshire; PhD, University of North Carolina at Chapel Hill

### Diane Jeffrey (1993)

*Director of the Silver Center for the Arts, 1997; 2001 Distinguished Professional, Administrative, Technical Staff Award*  
BA, Plymouth State College

### Susan M. Keefe (1984)

*Director of Plymouth Academic Support Services (PASS), 2008; Adjunct Faculty, English*  
BA, State University of New York at Potsdam; MEd, Plymouth State College

### Henry A. Long, Jr. (2001)

*Director of Alumni Relations*  
BS, MEd, Springfield College

**Scott J. Mantie (2006)**

*Associate Dean for Institutional Research and Assessment*  
BA, New England College; MS, Western Illinois University; PhD, Indiana University

**Daniel P. Moore (1990)**

*Vice Provost/Faculty Fellow; Professor of Business*  
BA, Kent State University; MBA, Youngstown State University; PhD, Drexel University

**Teresa L. Potter (1992)**

*Director of the Hartman Union Building, 2001*  
BA, Augustina College; MA, Bowling Green State University

**Debra Regan (1998)**

*Interim Director of The Bagley Center*  
BS, University of Massachusetts Lowell; MS, Fitchburg State College

**Karen Sanders (1998)**

*Director of the Child Development and Family Center, 2001; Adjunct Faculty, Education*  
BS, MEd, Plymouth State College

**June L. Schlabach (2003)**

*Director of Financial Aid*  
BS, University of North Dakota; MA, Ohio State University

**Ellen M. Shippee (1979)**

*Director of the Physical Plant, 2000*  
BS, Plymouth State College

**Ann E. Thurston (1981)**

*Assistant Provost for Academic Administration, 2008; 2003 Distinguished Professional, Administrative, Technical Staff Award*  
BA, MBA, CAGS, Plymouth State University

**Jane L. Weber (2007)**

*Director of the Writing Center*  
BA, Clark University; MST, University of New Hampshire

**Laurie R. Wilcox (2003)**

*Bursar*  
AS, Hesser College; ALB, EdM, Harvard University

**Christopher M. Williams (2006)**

*Director of Public Relations*  
BA, Wayne State University; MA, Michigan State University

**Faculty**

(Year of appointment in parenthesis)  
(Faculty listed are as of March 31, 2009)

**Ahl, Elizabeth A. (2001)**

*Associate Professor of English; Department Chair*  
BFA, Emerson College; MFA, University of Pittsburgh; PhD, University of Nebraska

**Alba, James J. (2006)**

*Adjunct Faculty, Guitar*  
ALA, North Shore Community College

**Allard, Elaine (1988)**

*Associate Professor of Library and Information Science*  
BS, Plymouth State College; MLIS, University of Rhode Island

**Allen, C. Brad (2001)**

*Assistant Professor of Management*  
BS, Merrimack College; MS, MBA, New Hampshire College; DBA, Southern New Hampshire University

**Allen, Michael W. (2006)**

*Adjunct Faculty, Philosophy*  
BA, University of Southern Maine; MA, Texas A & M University; PhD, Southern Illinois University

**Alosa, Rebecca (2007)**

*Instructional Assistant, English*  
BA, Plymouth State University

**Anderson, Diane M. (2006)**

*Student Teacher Supervisor*  
AB, Colby College; MAT, Columbia University

**Anderson, John S. (2004)**

*Adjunct Faculty, Photography*  
BFA, Rhode Island School of Design

**Anneser, Pamela P. (2007)**

*Adjunct Faculty, Graphic Design*  
BFA, University of Hartford; MFA, Yale University

**Arecchi, Arcangelo V. (2004)**

*Adjunct Faculty, Business*  
BS, U.S. Coast Guard Academy; MS, University of Rochester; MBA, Plymouth State College

**Arecchi, Kathleen H. (1979)**

*Professor of Music*  
BA, St. Joseph College; MM, Eastman School of Music; DMA, University of Maryland

**Aviles, Lourdes B. (2004)**

*Assistant Professor of Meteorology*  
BS, MS, University of Puerto Rico; PhD, University of Illinois at Urbana-Champaign

**Ayotte, Betsy (2008)**

*Technical Specialist, Biology*  
BS, University of New Hampshire

**Azem, Mary-Ellen (2007)**

*Adjunct Faculty, Education*  
BS, MEd, Notre Dame College

**Babin Esq., Roger O. (1979)**

*Associate Professor of Business*  
BS, Plymouth State College; JD, Boston College Law School; MST, Bentley College

**Bailey, Donald H. (1990)**

*Adjunct Faculty, Computer Science and Technology*  
BS, University of New Hampshire

**Barach, Isabel (1998)**

*Student Teacher Supervisor*  
BA, University of Denver

**Barbeau, Thomas P. (2002)**

*Adjunct Faculty, Physical Education*  
BEd, MS, McGill University

**Barry, Virginia M. (1970)**

*Professor of Education, College of Graduate Studies; 1985 Distinguished Teaching Award*  
BS, Florida State University; MS, SUNY at Stony Brook and CUNY Queens College; PhD, Florida State University

**Bass, Janis H. (1994)**

*Adjunct Faculty, Health Education*  
BA, Bates College; MEd, Plymouth State College

**Bates, Lynne (2007)**

*Adjunct Faculty, Health Education*  
BS, Plymouth State University

**Beaudrie, Brian P. (2003)**

*Associate Professor of Mathematics Education 7–12; Director of NH Impact Center; 2008 Wixson Endowed Professorship of Mathematics*  
BS, Mayville State University; MS, University of North Dakota; PhD, Montana State University

**Bechard, Bonnie L. (1982)**

*Professor of Business*  
BS, MS, State University of New York at Albany; EdD, Arizona State University

**Bennett, Eileen E. (1997)**

*Contract Faculty in Marketing*  
BA, Keene State College; MBA, Plymouth State College

**Benoit, Elizabeth B. (2007)**

*Adjunct Faculty, Psychology*  
BA, St. Louis University; MA, University of Massachusetts Lowell

**Benoit, William R. (1981)**

*Professor Emeritus of Business; Adjunct Faculty; 2006 Distinguished Graduate Teaching Award in Business*

BGE, University of Nebraska at Omaha; MS, University of Southern California; DBA, Nova Southeastern University

**Beronä, David A. (2005)**

*Associate Professor of Library and Information Science; Director of Lamson Library and Learning Commons*

BS, Wright State University; MS, Simmons College; MALS, University of New Hampshire

**Birch, Megan L. (2007)**

*Assistant Professor of English Education*

BS, Pennsylvania State University; MEd, University of Maryland; PhD, Michigan State University

**Bisson, Christian (2004)**

*Associate Professor of Adventure Education*

BS, Université de Sherbrooke, Quebec; MS, Northern Illinois University; EdD, University of Northern Colorado

**Bisson, Julie G. (2005)**

*Adjunct Faculty, Physical Education*

BA, Northern Illinois University; BA, Northland College; MA, University of Northern Colorado

**Blaine, Larry G. (1985)**

*Professor of Mathematics*

BS, Bowling Green University; MS, PhD, Michigan State University

**Blaine, Marcia Schmidt (2004)**

*Associate Professor of History*

BA, College of William and Mary; MA, PhD, University of New Hampshire

**Blake, Alan K. (2007)**

*Adjunct Faculty, Organizational Communications*

BA, MEd, Plymouth State University

**Blake, Roger E. (2002)**

*Contract Faculty in Mathematics*

BA, University of New Hampshire; MEd, Plymouth State University

**Boggess, Trent E. (1983)**

*Professor of Economics; Department Chair*

BA, MA, Bowling Green University; PhD, University of Kansas

**Boissonneault, Katie Rose (2008)**

*Assistant Professor of Microbiology/Genetics*

BS, University of Massachusetts Dartmouth; MS, PhD, Massachusetts Institute of Technology–Woods Hole Oceanographic Institution

**Boschmans, Barbara (2003)**

*Associate Professor of Mathematics Education K–8; Department Chair*

BS, MAT, EdD, Northern Arizona University

**Boucher, Thomas R. (2005)**

*Assistant Professor of Statistics; Director, Statistical Consulting Center*

BSc, MS, University of Massachusetts Lowell; PhD, Texas A & M University

**Bourn, Gail R. (2005)**

*Student Teacher Supervisor*

BS, Framingham State College; MEd, Plymouth State University

**Bowers, A. Joan (1995)**

*Adjunct Faculty, English*

BA, University of Nebraska; MA, Cornell University

**Bowers, A. Robin (1995)**

*Professor Emeritus of English; Adjunct Faculty*

BA, Michigan State University; MA, PhD, Princeton University

**Boyls-White, Brian G. (2007)**

*Adjunct Faculty, Athletic Training*

BS, Longwood College

**Bradbury, Christina J. (2007)**

*Adjunct Faculty, Accounting*

BS, Plymouth State University; MS, Southern New Hampshire University

**Braman, Robert G. (2007)**

*Adjunct Faculty, English*

AB, Princeton University; MA, Indiana University; PhD, Pennsylvania State University

**Brickley, Colleen C. (1993)**

*Contract Faculty in Economics; 2005*

*Distinguished Graduate Teaching Award in Business*

BA, University of Delaware; MA, University of New Hampshire

**Brickley II, Esq., Samuel D. (2005)**

*Assistant Professor of Business Law*

AB, Cornell University; MBA, JD, University of San Diego

**Brown, Charles E. (1970)**

*Faculty Technology Fellow*

BS, MS, University of New Hampshire; PhD, University of Connecticut

**Brown, Debra A. (2007)**

*Adjunct Faculty, English*

BS, University of Florida; MA, East Carolina University

**Brown, Erin E. (2008)**

*Instructional Assistant, English*

BS, Georgia Southern University

**Browne, Daryl (2002)**

*Adjunct Faculty, Computer Science and Technology*

BA, Harvard University; MBA, University of Phoenix

**Bruemmer, Robert (1998)**

*Adjunct Faculty, Theatre*

BA, Plymouth State College

**Brunette Esq., Peter R. (2007)**

*Adjunct Faculty, Criminal Justice*

BA, Plymouth State College; JD, Franklin Pierce Law Center

**Buckley, Christopher (2003)**

*Adjunct Faculty, English*

BA, Plymouth State College; MFA, Eastern Washington University

**Bullek, Michael (2008)**

*Adjunct Faculty, Health Education*

BS, Massachusetts College of Pharmacology

**Bunker, Victoria (2009)**

*Adjunct Faculty, Archaeology*

BA, University of New Hampshire; MA, Tufts University; PhD, Boston University

**Burckes-Miller, Margaret E. (1987)**

*Professor of Health Education*

BS, University of Vermont; MS, University of Oregon; EdD, Oklahoma State University

**Burke, Adelheid (2001)**

*Adjunct Faculty, German*

MA, Sozial Paedagogische Berufsfach Schule

**Burnell, Deborah M. (2003)**

*Contract Faculty in Business*

AS, BS, MBA, Plymouth State College

**Burnham, Wendy (2001)**

*Adjunct Faculty, Health Education*

AS, University of New Hampshire; BS, New England College; MEd, Plymouth State University

**Buteau, Gerard E. (1991)**

*Associate Professor of Education*

BS, MEd, Plymouth State College; EdD, Boston University

**Canlar, Mehmet (1988)**

*Professor of Accounting*

BS, Cornell University; MBA, New York University; PhD, Hacettepe University

**Cantor, Patricia A. (1990)**

*Professor of Education; 2002 Distinguished Teaching Award*

BA, Harvard University; MEd, Plymouth State College; EdD, Boston University



**Capsalis, Mara P. (2008)**  
*Adjunct Faculty, English*  
 BA, University of New Hampshire; MEd,  
 Plymouth State University

**Capsalis, Michael P. (2008)**  
*Adjunct Faculty, Community Planning*  
 BS, Plymouth State University

**Carlson, Judith O. (2008)**  
*Instructional Assistant, English*  
 AA, Merrimack Valley College; BA,  
 University of New Hampshire

**Carpentiere, David L. (2004)**  
*Adjunct Faculty, Communication and Media  
 Studies*  
 BA, Plymouth State College; MEd, Ohio  
 University

**Chabot, Christopher C. (1992)**  
*Professor of Biology; 2007 Distinguished  
 Teaching Award*  
 BA, Colby College; PhD, University of  
 Virginia

**Charpentier, Keith L. (2008)**  
*Adjunct Faculty, Education*  
 AS, Mitchell College; BS, MEd, CAGS,  
 Plymouth State University

**Cheney, Matthew (2008)**  
*Adjunct Faculty, English*  
 BA, University of New Hampshire; MA,  
 Dartmouth College

**Chesebrough, Constance D. (2004)**  
*Contract Faculty in Music; Collaborative Pianist*  
 BME, Heidelberg College; MM, University of  
 Cincinnati

**Childs, Pamela A. (2007)**  
*Adjunct Faculty, Physical Education*  
 BS Rutgers University; MEd, Springfield  
 College

**Chong, Peng-Khuan (1966)**  
*Associate Professor of Political Science;  
 Department Chair; 1988 Distinguished  
 Teaching Award*  
 BA, Cornell University; MA, University of  
 New Hampshire

**Cintron, Eric G. (2007)**  
*Contract Faculty in Spanish*  
 BA, University of Puerto Rico; MAT, Rivier  
 College

**Clark, John E. (2005)**  
*Adjunct Faculty, Criminal Justice*  
 BS, Franklin Pierce College; MEd, Plymouth  
 State University

**Clogston, Heather M. (2007)**  
*Adjunct Faculty, Health Education*  
 BS, MEd, Plymouth State University

**Coconubo, Claudia C. (2008)**  
*Adjunct Faculty, Spanish*  
 BS, University of Vermont

**Conner, Bethen O. (2007)**  
*Instructional Assistant, Media Studies*  
 BA, Plymouth State University

**Corcoran Jr., Gerard J. (1991)**  
*Professor of Music; Director of Bands*  
 BA, University of Maine; MS, EdD,  
 University of Illinois

**Cornish, Mary M. (2000)**  
*Associate Professor of Early Childhood  
 Education*  
 BS, University of Maine; MEd, Tufts  
 University; PhD, University of North  
 Carolina

**Couvillion, L. Michael (1980)**  
*Associate Professor of Economics; 2000  
 Distinguished Graduate Teaching Award in  
 Business*  
 BA, MBA, PhD, Louisiana Technical  
 University

**Cox, Elizabeth A. (1999)**  
*Associate Professor of Theatre; Director of  
 Theatre; 2008 Distinguished Teaching Award*  
 AB, MEd, University of Missouri, Columbia;  
 MFA, University of North Carolina-  
 Greensboro

**Coykendall, Scott R. (2002)**  
*Associate Professor of Professional Writing*  
 BA, Missouri Western State College; MFA,  
 Bowling Green State University

**Crompton, Gregory M. (2006)**  
*Adjunct Faculty, Criminal Justice*  
 BS, MEd, Plymouth State College

**Crowell, Marguerite (1993)**  
*Technical Specialist, Chemistry*  
 BS, Plymouth State College

**Crowell, Stuart (1990)**  
*Adjunct Faculty, Theatre*  
 BS, Plymouth State College

**Cucina, Irene M. (1998)**  
*Associate Professor of Health and Physical  
 Education; Director of Teacher Education*  
 BS, Northeastern University; MEd,  
 Cambridge College; DPE, Springfield College

**Curdie, Stacey L. (2003)**  
*Adjunct Faculty, English*  
 BA, Plymouth State College; MA, University  
 of the West Indies; CAGS, Plymouth State  
 University

**Curran-Kondrad, Eileen (2008)**  
*Adjunct Faculty, English*  
 BA, Immaculata College; MA, Northeastern  
 University; MEd, Plymouth State University

**Cushing, Darcy (2004)**  
*Adjunct Faculty, Physical Education*  
 BS, Knox College

**D'Aleo, Judith (1994)**  
*Adjunct Faculty, Biology*  
 BA, MA, State University of New York  
 College at Geneseo

**D'Amico, Elizabeth E. (2002)**  
*Adjunct Faculty, Art*  
 BS, Syracuse University; MA, Columbia  
 University

**Dadmun, Lauren (1990)**  
*Adjunct Faculty, Art*  
 BA, Plymouth State College; MAT, University  
 of New Hampshire

**Dansereau, Edmond (2005)**  
*Adjunct Faculty, Marketing*  
 BS, Northeastern University; MBA, Southern  
 New Hampshire University

**Darrow Esq., Jonathan (2006)**  
*Assistant Professor of Business Law*  
 BS, Cornell University; MBA, Boston  
 College; JD, Duke University

**Dautcher, Terri L. (2007)**  
*Contract Faculty in Marketing*  
 BA, Dickinson College; MBA, Temple  
 University

**Davis, C. Lynn (1995)**  
*Associate Professor of Education*  
 BA, Graceland College; MEd, Plymouth State  
 College; PhD, Lesley College

**DeLuca, Anthony (2007)**  
*Adjunct Faculty, History*  
 BA, Boston College; MA, PhD, Stanford  
 University

**DeRosa, Robin (2003)**  
*Associate Professor of English; Sabbatical Spring  
 2010*  
 AB, Brown University; MA, PhD, Tufts  
 University

**Diehl, Dorothy M. (1972)**  
*Professor Emerita of Physical Education;  
 Adjunct Faculty*  
 BS, West Chester State College; MS,  
 University of New Hampshire; PhD,  
 University of Illinois

**Dillman, Anita C. (2005)**  
*Adjunct Faculty, Drawing*  
 BFA, Daemen College; MFA, Syracuse  
 University

**Dokus, Allyn (2008)**  
*Adjunct Faculty, Geography*  
 BA, University of New Hampshire; MEd,  
 Plymouth State University

- Donahue, Katherine C. (1992)**  
*Professor of Anthropology-Sociology; 1997 Distinguished Teaching Award*  
 BA, Connecticut College; MA, PhD, Boston University
- Doner, Lisa A. (2006)**  
*Research Assistant Professor of Ecology and Meteorology*  
 BA, BS, University of Arizona; MS, University of Maine at Orono; PhD, University of Colorado at Boulder
- Donovan, John E. (2007)**  
*Assistant Professor of Mathematics Education*  
 BA, Hartwick College; MA, EdM, PhD, State University of New York at Buffalo
- Downs, John T. (1971)**  
*Professor of Art*  
 BA, MA, University of Miami; MFA, Florida State University
- Drexel, Peter G. (1988)**  
*Professor of Computer Science and Technology*  
 BS, MS, Rochester Institute of Technology; PhD, University of New Hampshire
- Driscoll Jr., Thomas W. (2000)**  
*Associate Professor of Art*  
 BFA, Plymouth State College; MFA, Cranbrook Academy of Art
- Dubois, Nancy A. (2007)**  
*Adjunct Faculty, Social Work*  
 BS, State University of New York College at Cortland; MSW, University of New England
- Dumont, Jennifer A. (2004)**  
*Adjunct Faculty, English*  
 BS, Boston University; MEd, Plymouth State College
- Duncan, Jeremiah S. (2009)**  
*Assistant Professor of Chemistry*  
 BS, University of Missouri-Rolla; MA, PhD, Princeton University
- Duncan, Kimberly A. (2009)**  
*Research Assistant Professor of Chemistry*  
 BA, Cornell University; MA, PhD, Princeton University
- Dupuis, Amy (2007)**  
*Adjunct Faculty, Adventure Education*  
 BS, University of New Hampshire
- Dutille, Jessica A. (2006)**  
*Adjunct Faculty, Business and Education*  
 BS, MBA, Plymouth State College
- Eastman, Terri L. (2009)**  
*Adjunct Faculty, Health Education*  
 BA, MEd, Plymouth State University
- Egbert Jr., Robert G. (1978)**  
*Associate Professor of Political Science*  
 BA, DA, Idaho State University
- Eisenhauer, Brian W. (2003)**  
*Assistant Professor of Sociology; Associate Director of the Center for the Environment; Sabbatical 2009–2010*  
 BA, Colorado State University; MA, Humboldt State University; PhD, Utah State University
- Ekstrom, Angel A. (2001)**  
*Adjunct Faculty, Adventure Education*  
 AA, Anoka Ramsey Community College; BS, Southwest State University; MS, University of Nebraska at Omaha; CAGS, Plymouth State University; EdD, Argosy University
- Ellsworth, Rodger (2000)**  
*Adjunct Faculty, String Methods*
- Emery, Lynn R. (2009)**  
*Adjunct Faculty, Education*  
 BS, Keene State College
- Epstein, Bonnie W. (1994)**  
*Professor of English*  
 BA, MEd, Plymouth State College; PhD, Union Institute
- Ernst, Dana C. (2008)**  
*Assistant Professor of Mathematics*  
 BS, George Mason University; MS, Northern Arizona University; PhD, University of Colorado
- Evenson, Krisan L. (2006)**  
*Adjunct Faculty, Political Science*  
 BA, Colby College, MA, Monterey Institute International; MA, PhD, Syracuse University
- Farr, Judith (2008)**  
*Adjunct Faculty, Physical Education*  
 BS, MEd, Plymouth State University
- Fedorchak, Paul M. (1992)**  
*Professor of Psychology; Department Chair*  
 BS, State University of New York College at Oswego; PhD, University of Washington
- Field, Juanita V. (1989)**  
*Professor of Psychology*  
 BA, MA, PhD, West Virginia University
- Fife, Douglas D. (1970)**  
*Professor of Psychology*  
 BA, MacMurry College; MA, PhD, University of South Dakota
- Finefrock, Crystal (2008)**  
*Adjunct Faculty, Business*  
 BS, MBA, Southern New Hampshire University
- Finley, Greg A. (2006)**  
*Adjunct Faculty, Art*  
 BFA, Center for Creative Studies, Detroit; MFA, Indiana State University
- Fischer, Linda C. (2009)**  
*Instructional Assistant, Health Education*  
 BS, Defiance College
- Fischler Esq., Mark J. (2003)**  
*Assistant Professor of Criminal Justice*  
 BA, University of New Hampshire; JD, University of Maine
- Fischler, Michael L. (1970)**  
*Professor of Education; Director of the Counseling and Human Relations Center; 2004 Distinguished Graduate Teaching Award in Education*  
 BEd, MEd, University of Miami; EdD, University of Colorado
- Fisher, Virginia (2002)**  
*Adjunct Faculty, Costuming*  
 BA, MEd, Plymouth State University
- Fistek, Michelle A. (1983)**  
*Professor of Political Science*  
 BA, Juniata College; MA, PhD, Miami University
- Fitzpatrick, Robert E. (1984)**  
*Professor of Library and Information Science; 2001 Distinguished Teaching Award*  
 BA, University of New Hampshire; MS, Simmons College
- Flynn, Mark (2004)**  
*Adjunct Faculty, English*  
 BA, State University of New York College at Geneseo; MEd, Plymouth State University
- Fogleman, Wavell W. (1977)**  
*Professor of Emeritus Chemistry; Adjunct Faculty*  
 BS, University of North Carolina at Chapel Hill; PhD, Tulane University
- Fraser, Grace M. (1990)**  
*Associate Professor of Anthropology*  
 BA, University of Utah; MA, PhD, University of Massachusetts
- Fried, Arthur M. (1982)**  
*Professor of English; Sabbatical Spring 2010*  
 BA, University of Illinois at Urbana; MS, Northwestern University; AD, University of Michigan
- Frost, Thomas G. (2006)**  
*Contract Faculty in Psychology*  
 BS, Ohio State University; PhD, University of Georgia

**Funk, Joel D. (1975)**  
*Professor of Psychology*  
 BA, Rutgers University; MA, PhD, Clark University

**Fusco, Anthony R. (2008)**  
*Adjunct Faculty, Geography*  
 BS, MS, Plymouth State University

**Gabellieri, Joshua M. (2008)**  
*Instructional Assistant, Physical Education*  
 BS, Plymouth State University

**Garcia, Wilson A. (2004)**  
*Contract Faculty in Spanish*  
 BA, Universidad de Antioquia (Colombia); MEd, Plymouth State University

**Gardner, Marie-Thérèse (2001)**  
*Contract Faculty in French*  
 Baccalaureate Pt. I, University of Paris, France; BA, Boston University; MA, Boston College; CAGS, Plymouth State University

**Garlitz, Robert E. (1979)**  
*Professor of English*  
 BA, University of Maryland; MA, PhD, University of Chicago

**Garneau, John (2000)**  
*Adjunct Faculty, Physical Education*  
 BS, MEd, Plymouth State College

**Gennaro, Victor (2004)**  
*Affiliate Faculty, Athletic Training*  
 BS, West Chester State College; DO, Philadelphia College of Osteopathic Medicine

**Gerken Esq., Richard R. (2004)**  
*Adjunct Faculty, Business*  
 AB, Cornell University; JD, University of Connecticut

**Giles, Kim (2007)**  
*Adjunct Faculty, Social Work*  
 BA, Notre Dame College; MSW, Loyola University

**Gilmore, Timothy (1999)**  
*Adjunct Faculty, Percussion and Percussion Methods*  
 BS, Salem State College

**Gindoff, Virginie J. (2006)**  
*Adjunct Faculty, French*  
 BA, Plymouth State University

**Golden, Steven P. (2003)**  
*Adjunct Faculty, Adventure Education*  
 BA, MEd, Plymouth State University

**Gonzalez Sanders, Jose (2009)**  
*Adjunct Faculty, Physical Education*  
 BS, Interamerican University of Puerto Rico; MS, Aurora University

**Goodnough, Gary E. (1995)**  
*Professor of Counselor Education, College of Graduate Studies; 2007 Distinguished Graduate Teaching Award*  
 BS, University of Delaware; MEd, PhD, University of Virginia

**Gorin, Stephen H. (1994)**  
*Professor of Social Work*  
 BA, Boston University; MSW, State University of New York at Stony Brook; PhD, Brandeis University

**Graff, Carleen A. (1973)**  
*Professor of Music*  
 BME, Illinois Wesleyan University; MA, University of Denver; DA, University of Northern Colorado

**Grand, Alma E. (1993)**  
*Student Teacher Supervisor*  
 BS, Our Lady of the Lake College

**Granoff, Stuart (2008)**  
*Adjunct Faculty, Linguistics*  
 AB, Harvard University; MA, Columbia University

**Green, Stephanie D. (2000)**  
*Adjunct Faculty, Sociology and Sign Language*  
 AAS, Northwestern Connecticut Community College; BA, Notre Dame College; MSW, University of New Hampshire

**Grillo, Danee (2007)**  
*Adjunct Faculty, Costuming; Costume Shop Manager*  
 BA, Keene State College

**Grover, Aditi (2008)**  
*Assistant Professor, Marketing*  
 BA, University of Delhi; MBA, Fore School of Management (India); MA, State University of New York at Buffalo; PhD, University of Southern California

**Gruner, Elliott G. (2007)**  
*Associate Professor of English; Director of Composition*  
 BS, US Military Academy at West Point; MA, PhD, University of Washington

**Guilmett, JoAnn M. (2009)**  
*Adjunct Faculty, History*  
 BGS, Granite State College; MEd, Plymouth State University

**Hager, Annie E.S. (2003)**  
*Adjunct Faculty, Mathematics*  
 BS, Stanford University; MS, University of Maine

**Haight, David F. (1971)**  
*Professor of Philosophy; Department Chair*  
 BA, Stanford University; MA, PhD, Northwestern University

**Hall, Karen E. (2009)**  
*Assistant Professor of Counselor Education, College of Graduate Studies*  
 BA, Elmira College; MS, University of North Carolina at Greensboro

**Halter, Stephanie J. (2006)**  
*Assistant Professor of Criminal Justice*  
 BA, Plymouth State College; MA, PhD, University of New Hampshire

**Hamel, Christopher V. (2007)**  
*Adjunct Faculty, Criminal Justice*  
 BS, Granite State College; MS, Springfield College

**Hanks, Lois A. (2004)**  
*Adjunct Faculty, Dance*

**Hannon, James G. (2006)**  
*Contract Faculty in Adventure Education*  
 BS, Saint Lawrence University; MS, University of Maine

**Harding, Edward (1983)**  
*Professor of Business*  
 BA, Middlebury College; MBA, Dartmouth College; PhD, University of Massachusetts

**Hart, Kyla-Patrick R. (2002)**  
*Associate Professor of Communication and Media Studies; Department Chair; 2007 Award for Distinguished Scholarship; Sabbatical Fall 2009*  
 AB, University of California-Berkeley; MA, University of Southern California; PhD, University of Michigan

**Hart, Philip (1995)**  
*Adjunct Faculty, Philosophy*  
 BA, Franklin and Marshall College; MA, The Hartford Seminary Foundation

**Haust, William (1984)**  
*Professor of Art Education*  
 BS, SUNY-Buffalo; MFA, Goddard College; EdD, Nova University

**Hay, Sarah (2009)**  
*Adjunct Faculty, Geography*  
 BA, Warren Wilson College; EdM, Harvard University

**Heald, Bruce D. (1998)**  
*Adjunct Faculty, History*  
 AA, Boston University; BS, Lowell University; MA, PhD, Columbia Pacific University

**Healy, Brian T. (1996)**  
*Professor of Psychology*  
 BA, Ithaca College; MA, PhD, University of Maryland

**Heffernan, Michael (1999)**

*Adjunct Faculty, Art*  
BA, Colgate University; MFA, The New York Academy of Art

**Hehir, George F. (2005)**

*Adjunct Faculty, Mathematics*  
BA, University of Massachusetts Boston;  
MA, University of Massachusetts Amherst;  
MEd, Plymouth State College

**Heiner, Robert (1995)**

*Professor of Sociology*  
BA, University of Virginia; MS, Florida State University; PhD, University of Virginia

**Henriquez, Alejandro (2009)**

*Adjunct Faculty, Spanish*  
BS, MBA, Plymouth State University

**Henwood, Mark M. (2006)**

*Adjunct Faculty, Computer Science and Technology*  
BS, Plymouth State University

**Hett, William F. (2007)**

*Adjunct Faculty, Mathematics*  
BA, Plymouth State College; MS, University of New Hampshire

**Higgins, Jonathan G. (2008)**

*Adjunct Faculty, Chinese*  
BA, University of North Carolina at Asheville; MS, Old Dominion University

**Hillger, Jane H. (2005)**

*Adjunct Faculty, Physical Education*  
AA, Cape Cod Community College; BS, Leslie University

**Hiltz, Meagan J. (2008)**

*Adjunct Faculty, Health Education*  
BS, Plymouth State University

**Hoch, Brendon (2005)**

*Adjunct Faculty, Meteorology; Meteorology Technical Manager*  
BS, Rutgers University; MS, Ohio State University

**Hoffman, Eric G. (2000)**

*Associate Professor of Meteorology; Department Chair*  
BS, Cornell University; MS, PhD, State University of New York at Albany

**Holba, Annette M. (2005)**

*Assistant Professor of Communication and Media Studies*  
AS, Burlington Community College; BA, Rowan University; MA, Rutgers University; PhD, Duquesne University

**Howarth, Whitney B. (2004)**

*Assistant Professor of History*  
BA, Moravian College; MA, PhD, Northeastern University

**Hunewill, Christine M. (2004)**

*Adjunct Faculty, Education*  
BS, Framingham State College; MEd, CAGS, Plymouth State University

**Hunnewell, Richard W. (1980)**

*Professor of Art History; 1994 Distinguished Teaching Award*  
BA, Colby College; PhD, Boston University

**Huynen, Penny (2008)**

*Adjunct Faculty, Ceramics*  
BFA, Kansas City Art Institute; MFA, Kent State University

**Hyerle, David (2006)**

*Affiliate Faculty and Visiting Scholar, College of Graduate Studies*  
BA, MEd, EdD, University of California at Berkeley

**Inwood, Philip C. (2008)**

*Adjunct Faculty, Art History*  
BFA, Academy of Fine Art, England

**Jang, Soo M. (1983)**

*Professor of Economics*  
BA, MA, Seoul National University; MBA, University of Hawaii; PhD, University of Cincinnati

**Johnson, Lynn V. (2006)**

*Associate Professor of Physical and Health Education*  
BS, Springfield College; EdD, University of Vermont

**Josephson, Louis (2005)**

*Adjunct Faculty, Social Work*  
BA, Tufts University; MSW, Columbia University; PhD, New York University

**Jowdy, Carol (1994)**

*Adjunct Faculty, Art*  
BA, University of New Hampshire, MFA, University of Pennsylvania

**Kelley, Donna (1990)**

*Skills Application Teacher, Mathematics*  
BA, MEd, Plymouth State College

**Kietzman, William D. (1974)**

*Assistant Professor of Library and Information Science*  
BA, Siena College, MA, State University of New York at Albany; MLS, State University of New York at Buffalo

**Kim, Jong-Yoon (2001)**

*Associate Professor of Graphic Design*  
BFA, Kong-Il University, Korea; MFA in Ceramics, Indiana State University; MFA in Graphic Design, Indiana University

**Kinane, Karolyn (2006)**

*Assistant Professor of Medieval and Early Modern Literature*  
BA, State University of New York at New Paltz; PhD, University of Minnesota

**King, Marjorie A. (2003)**

*Associate Professor of Athletic Training; Sabbatical Spring 2010*  
BS, University of New Hampshire; BS, Simmons College; MS, University of Massachusetts Amherst; PhD, University of Virginia

**Kizer, D. Matthew (1996)**

*Associate Professor of Theatre Design and Technology*  
BA, Indiana-Purdue University; MFA, Ohio State University

**Kleinpeter, Roger (1980)**

*Adjunct Faculty, Computer Science and Technology*  
BSEE, University of Missouri; MS, California State University

**Kline, Naomi R. (1982)**

*Professor of Art History*  
BA, Wellesley College; PhD, Boston University

**Knower, Jay C. (2005)**

*Adjunct Faculty, English*  
BA, University of Wisconsin-Oshkosh; MEd, Plymouth State University

**Koerner, James P. (1988)**

*Professor of Meteorology*  
BS, University of Maryland; MS, PhD, University of Utah

**Kopczynski, Frank J. (1990)**

*Professor of Accounting*  
BS, United States Military Academy West Point; MBA, Plymouth State College; PhD, Union Institute

**Kretz, Thomas G. (2008)**

*Adjunct Faculty, Biology*  
BS, DC, National College of Chiropractic

**Krueckeberg, John C. (2001)**

*Associate Professor of History*  
BA, Macalester College; MA, PhD, University of Arizona

**Kulig, Anne M. (2000)**

*Associate Professor of Library and Information Science*  
BA, Missouri Western State College; MLS, Syracuse University

**Kulig, John W. (1987)**

*Professor of Psychology*  
BA, American International College; PhD, Dartmouth College

**Ladouceur, Kathryn (2008)**

*Adjunct Faculty, Physical Education*  
BS, Plymouth State University

**Laverack, Susan (1997)**

*Adjunct Faculty, Physical Education*  
BS, College of Lifelong Learning; MEd,  
Plymouth State University

**Lavigne, S. Lauren (1998)**

*Adjunct Faculty, Physical Education; Athletic Coach*  
BA, MEd, Plymouth State College

**Lawton, Joshua (2006)**

*Adjunct Faculty, Adventure Education*  
BA, University of New Hampshire

**Lazdowski, Yvette J. (2005)**

*Assistant Professor of Accounting*  
BS, Franklin Pierce College; MBA, Plymouth State University; DBA, Argosy University

**LeBlanc, Catherine F. (1998)**

*Associate Professor of Digital Media*  
BA, Dartmouth College; MS, PhD, Florida State University

**Lebrun, Marcel R. (2002)**

*Associate Professor of Childhood Studies; Department Chair; 2008 Distinguished Graduate Teaching Award*  
BEd, BA, MEd, University of Manitoba; PhD, University of San Jose

**Lee, Soung (Daniel) (2007)**

*Assistant Professor of Economics*  
BA, California State University-Dominguez Hills; MA, California State University-Los Angeles; PhD, Claremont Graduate University

**Legacy, Kelly (2004)**

*Affiliate Faculty, Athletic Training*  
BS, Saint Bonaventure University; DPT, Massachusetts General Hospital Institute of Health Professors

**Lelas, Vedran (2004)**

*Associate Professor of Business*  
BS, University of Zagreb, Croatia; PhD, The University of Texas at Austin

**Lennon, John C. (2007)**

*Adjunct Faculty, Geography*  
BS, MS, Boston College

**Lessard, Terri J. (1996)**

*Adjunct Faculty, Management; 1993 Distinguished Professional, Administrative, Technical Staff Award*  
BA, MEd, Plymouth State College

**Letendre, Eric J. (2007)**

*Adjunct Faculty, Finance*  
BA, Virginia Military Institute; MBA University of Notre Dame

**Leuser, David M. (1978)**

*Professor of Business*  
BA, Drew University; MA, PhD, University of New Hampshire

**Levy, Linda S. (1991)**

*Associate Professor of Athletic Training; Department Chair*  
AS, Mount Ida College; BS, MEd, Keene State College; EdD, Argosy University

**Li, Xiaoxiong (1993)**

*Professor of Asian History*  
BA, MA, Sichuan University; MA, PhD, The Johns Hopkins University

**Lindberg, Patricia L. (1990)**

*Professor of Education and Integrated Arts; 2003 Distinguished Teaching Award*  
BA, BS, University of New Hampshire; MA, Emerson College; PhD, New York University

**Lindley, Liesl M. (2001)**

*Instructor of Athletic Training; Director of Undergraduate Athletic Training*  
BS, Appalachian State University; MA, Furman University

**Lonergan, Philip (2000)**

*Associate Professor of Sculpture*  
BA, College of St. Thomas; MFA, SUNY-Albany

**Long, Moira C. (1998)**

*Adjunct, Physical Education; Athletic Coach*  
BA, Marist College; MEd, Springfield College

**Lopez-Mayhew, Barbara D. (2001)**

*Associate Professor of Spanish; Department Chair*  
BA, Catholic University of America; MA, University of Massachusetts; PhD, Boston College

**Luke, Stacy L. (2007)**

*Adjunct Faculty, Biology*  
BA, Boston University; MEd, Plymouth State University

**Maatta, Jon M. (1991)**

*Professor of Statistics; Sabbatical Spring 2010*  
BS, State University of New York College at Cortland; MS, PhD, Cornell University

**Macchiette, Barton L. (1979)**

*Professor of Marketing*  
BS, Nasson College; MBA, American University; PhD, Union Graduate School

**Machnik, Dennis E. (1990)**

*Associate Professor of Natural Science*  
BS, MS, PhD, Rensselaer Polytechnic Institute

**Mackey, David A. (2004)**

*Associate Professor of Criminal Justice; Department Chair*  
BS, University of Lowell; MA, University of Massachusetts; PhD, Indiana University of Pennsylvania

**MacLeish Esq., Roderick (2006)**

*Visiting Faculty, Criminal Justice*  
JD, Boston University

**MacLeod, Robert J. (2000)**

*Adjunct Faculty, Business*  
BA, MBA, Plymouth State College

**Manikian, Sally A. (2008)**

*Adjunct Faculty, History*  
BA, Trinity College (Ireland); MScEcon, University of Wales-Aberystwyth

**Marocco, Dominick A. (1974)**

*Associate Professor Emeritus of Biology; Adjunct Faculty*  
BS, Siena College; MS, PhD, Northeastern University

**Marshall, Roger G. (2008)**

*Professor of Computer Science and Technology; Department Chair*  
BS, Indian Institute of Technology, Madras; MS, Dalhousie University, Halifax; PhD, University of Nebraska

**Martin, David W. (1993)**

*Professor of Graphic Design*  
BS, MS, University of Cincinnati

**Mason, Amy J. (2008)**

*Instructional Assistant, Health Education*  
BS, Plymouth State College

**Mason Jr., Warren E. (1982)**

*Professor of Business and Communication and Media Studies; 2003 Distinguished Graduate Teaching Award in Business*  
BA, St. Anselm College; MA, Rivier College; EdD, Boston University

**Maxner, Scott J. (2002)**

*Adjunct Faculty, Geography*  
BS, Cameron University; MS, Old Dominion University

**May, Patrick J. (2000)**

*Associate Professor of Geography*  
BA, MA, Bowling Green State University; PhD, University of Maryland

**McBee Jr., Burrett E. (2006)**

*Adjunct Faculty, English*  
BA, Utica College of Syracuse University; MA, University of Illinois



**McBride, David H. (2008)**

*Adjunct Faculty, Communication and Media Studies*  
BA, University of New Hampshire; MEd, Northeastern University

**McCahan, Barbara J. (1989)**

*Associate Professor of Health and Physical Education; Sabbatical Spring 2010*  
BA, Revelle College, University of California; MA, PhD, University of California

**McClellan, Ann K. (2005)**

*Associate Professor of 20th Century British Literature*  
BA, University of Michigan–Flint; MA, PhD, University of Cincinnati

**McCool, Gary A. (1978)**

*Associate Professor of Library and Information Science; 2008 Award for Excellence in Faculty Service*  
BA, Knox College; MA, University of Denver; MA, Roosevelt University; MLS, University of Rhode Island

**McCormack, Louise S. (1980)**

*Professor of Physical Education; 1999 Distinguished Teaching Award*  
BS, Plymouth State College; MA, Ohio State University; EdD, Boston University

**McDougal, David S. (1988)**

*Assistant Professor of Psychology*  
BA, University of Massachusetts; MEd, University of New Hampshire; PhD, University of Vermont

**McDougall, Duncan C. (1992)**

*Professor of Business; 2004 Distinguished Graduate Teaching Award in Business*  
AB, Amherst College; MBA, DBA, Harvard University

**McElwee, Robert L. (2007)**

*Adjunct Faculty, Business*  
BA, MA, Kent State University

**McGarry, James J. (1982)**

*Professor of Psychology*  
BA, PhD, Kent State University

**McGarry, Mary Ann (2004)**

*Research Associate Professor of Science Education*  
BA, Dartmouth College; MS, Northern Arizona University; EdD, University of Maine

**McLaughlin, Sandra L. (2008)**

*Contract Faculty, Education*  
BA, University of Massachusetts Boston; MEd, Plymouth State University

**McManus, Dennis P. (1992)**

*Adjunct Faculty, Physical Education; Athletic Coach*  
BS, Plymouth State College; MS, Indiana University

**Mealey, Joseph (2001)**

*Skills Application Teacher, English*  
BA, Plymouth State College; MA, Case Western Reserve University

**Mears, Gail (1999)**

*Associate Professor of Counselor Education, College of Graduate Studies*  
BA, Plymouth State College; MEd, CAGS, University of New Hampshire

**Melloni, Romeo (2002)**

*Adjunct Faculty, Music Theory and Ear Training*  
BA, Berklee College of Music; MA, New England Conservatory; DMA, Boston University

**Merrill, Scott A. (2008)**

*Adjunct Faculty, Philosophy*  
BA, Plymouth State University; MTS, STM, Boston University

**Merriman, Joan (2000)**

*Adjunct Faculty, Anthropology*  
BA, University of Vermont; MA, PhD, State University of New York at Binghamton

**Meyer, Scott R. (1987)**

*Professor of Social Work*  
AA, Queensboro Community College; BSW, MSW, Adelphi University; PhD, Boston University

**Middlekauff, Bryon D. (1988)**

*Professor of Geography and Environmental Science and Policy*  
BA, University of Maryland; MA, Appalachian State University; PhD, Michigan State University

**Miller, Kristine (2009)**

*Assistant Professor of Criminal Justice*  
BA, MS, PhD, University of Texas at Dallas

**Miller, Robert S. (1976)**

*Professor of Education; 1989 Distinguished Teaching Award*  
AB, Amherst College; PhD, Dartmouth College

**Miller, Samuel T.K. (2005)**

*Assistant Professor of Meteorology*  
BSc, MSc, PhD, University of New Hampshire

**Minickiello, Maria F. (2007)**

*Adjunct Faculty, Art*  
BA, Plymouth State College; MS, Antioch New England

**Misenheimer, Karyn L. (2006)**

*Student Teacher Supervisor*  
BS, Plymouth State College; MEd, Frostburg State College

**Mitchell, Annette W. (1979)**

*Professor of Art*  
BFA, University of Denver; MA, MFA, University of Alabama

**Moniz, Cynthia D. (1985)**

*Professor of Social Work; Department Chair*  
BA, University of Rhode Island; MSW, State University of New York at Stony Brook; PhD, Brandeis University

**Monninger, Joseph (2003)**

*Associate Professor of English*  
AB, Temple University; MA, University of New Hampshire

**Moreno, Ursula (2008)**

*Adjunct Faculty, Business*  
BS, Florida Metropolitan University; MBA, Plymouth State University

**Morin, Thomas R. (2004)**

*Adjunct Faculty, Environmental Science*  
BSE, Westfield State College; MEd, Plymouth State College

**Mosedale, Irene M. (1998)**

*Contract Faculty in Education; Director of NH North Country Teacher Certification Project, Berlin*  
BS, MEd, Plymouth State College; CAGS, Plymouth State University

**Moskowitz, Jay (1996)**

*Adjunct Faculty, Art; 2008 Distinguished Adjunct Teaching Award*  
BS, MEd, Plymouth State College

**Mrocza, Paul M. (1994)**

*Professor of Theatre; Sabbatical Spring 2010*  
BA, Franklin and Marshall College; MFA, Brandeis University; PhD, Tufts University

**Munton, Amanda G. (2005)**

*Adjunct Faculty, Voice*  
BA, Plymouth State University; MM, University of North Carolina at Greensboro

**Murphy, Terence M. (1975)**

*Assistant Professor of Business*  
BS, Merrimack College; MBA, Suffolk University

**Nadeau, Robert A. (2007)**

*Adjunct Faculty, Business*  
BS, Granite State College; MBA, Plymouth State University

**Nelson, Bethany (2009)**

*Adjunct Faculty, Education*  
BS, Emerson College; MEd, Harvard University

- Nelson, Jeffrey S. (2005)**  
*Adjunct Faculty, Criminal Justice*  
BA, Saint Anselm College; MEd, Plymouth State University
- Nevins, Craig (1999)**  
*Adjunct Faculty, Sociology*  
BA, MA, Vermont College of Norwich University
- Noel, Rebecca R. (2004)**  
*Assistant Professor of History*  
BA, Yale University; MA, PhD, Boston University
- O'Donnell, Brigid C. (2009)**  
*Assistant Professor of Developmental Biology*  
BS, Pennsylvania State University; PhD, University of Connecticut
- O'Donohoe, Jacqueline (2007)**  
*Instructional Assistant, Mathematics*  
BA, Plymouth State University
- O'Hara, Najwa (2008)**  
*Adjunct Faculty, Arabic*  
BA, Al-Mustansriah University, Iraq
- Okrant, Mark J. (1979)**  
*Professor of Tourism Management; Director of Institute for New Hampshire Studies*  
BS, MS, Southern Connecticut State College; EdD, Oklahoma State University
- Oliver, Holly E. (2003)**  
*Contract Faculty in Music*  
BS, University of New Hampshire; MEd, Plymouth State College
- Orlowski, Kevin (2007)**  
*Adjunct Faculty, Communication and Media Studies*  
BS, MBA, Plymouth State University
- Otto, Herbert R. (2008)**  
*Professor Emeritus of Philosophy; Adjunct Faculty*  
BS, BA, MA, Pennsylvania State University; PhD, University of Pennsylvania
- Otucu, Filiz (2005)**  
*Assistant Professor of Political Science and International Studies*  
BA, Marmara University (Turkey); MA, University of Central Oklahoma; PhD, University of Kentucky
- Overaker, Lewis J. (2008)**  
*Adjunct Faculty, French*  
AB, MacMurray College; AM, Indiana University Bloomington; PhD, Ohio State University
- Palmer, Patricia M. (2007)**  
*Adjunct Faculty, Mathematics*  
BS, MEd, Fitchburg State College
- Palmquist, Wendy J. (1981)**  
*Professor of Psychology; Director of Frost Faculty Center for Learning and Teaching Excellence; 2006 Distinguished Teaching Award; 2007 Award for Excellence in Faculty Service*  
BA, Pomona College; PhD, Cornell University
- Perkins, Daniel R. (1991)**  
*Professor of Music; Director of Choral Activities; 2007 Stevens-Bristow Professorship*  
BMA, Brigham Young University; MM, DMA, University of Southern California
- Perkins Jr., Raymond (1992)**  
*Professor of Philosophy*  
BA, Colby College; PhD, Duke University
- Perkins, Russell E. (2002)**  
*Adjunct Faculty, Geology*  
BS, Keene State College; MS, University of Massachusetts
- Peters, Robin M. (2005)**  
*Adjunct Faculty, Health Education*  
BA, MEd, Plymouth State College
- Petersen, Meg J. (1991)**  
*Professor of English; 2000 Distinguished Teaching Award; 2006 Distinguished Graduate Teaching Award in Education*  
BA, Franklin Pierce College; PhD, University of New Hampshire
- Pfenninger, Richard C. (1990)**  
*Professor of Music*  
BM, Eastman School of Music; MM, University of Michigan School of Music; DMA, Temple University
- Phillips, Ashley R. (2008)**  
*Adjunct Faculty, Communication and Media Studies*  
BA, Emerson College
- Price, Karen N. (2008)**  
*Adjunct Faculty, Yoga*
- Prince, Frederick P. (1985)**  
*Professor of Anatomy*  
BS, Pennsylvania State University; MS, PhD, Ohio University
- Pruyn, Michele L. (2006)**  
*Assistant Professor of Plant Biology*  
BS, University of Chicago; MS, Michigan State University; PhD, Oregon State University
- Rancourt, Fran G. (2007)**  
*Adjunct Faculty, Interdisciplinary Studies*  
AA, BS, Granite State College; MEd, Plymouth State University; EdD, Argosy University
- Reitsma, Leonard R. (1992)**  
*Professor of Zoology; Department Chair; 2005 Distinguished Teaching Award*  
BS, William Paterson College; PhD, Dartmouth College
- Rella, Patricia A. (2007)**  
*Adjunct Faculty, Spanish*  
BA, MAT, University of New Hampshire
- Renaud-Finnegan, Sheila (2008)**  
*Adjunct Faculty, Social Work*  
BA, University of New Hampshire; MSW, Columbia University
- Ricard, Emily C. (2008)**  
*Contract Faculty in Mathematics; Associate Director of the NH Impact Center*  
BA, Wellesley College; MBA, New York University; MA, City College
- Ricciardi, Angela (2001)**  
*Adjunct Faculty, English*  
BA, University of Massachusetts; MA, Westfield State College
- Rivanis, Leal (2009)**  
*Adjunct Faculty, Mathematics*  
BS, Plymouth State University
- Roberson, Christian A. (2007)**  
*Assistant Professor of Computer Science and Technology*  
BS, ME, PhD, University of Florida, Gainesville
- Roberts, William J. (1971)**  
*Professor of Mathematics*  
BS, University of Massachusetts; MEd, University of Hartford; CAS, Wesleyan University; EdD, University of Massachusetts
- Robertson, Royce L. (2005)**  
*Assistant Professor of Childhood Studies*  
BS, Western Michigan University; MEd, Plymouth State College; CAGS, Plymouth State University; EdD, Argosy University
- Robinson, Thomas S. (2007)**  
*Adjunct Faculty, Jazz, Piano and Ensembles*  
BA, Capital University
- Rochefort, Ashley (2008)**  
*Instructional Assistant, Physical Education*  
BS, Plymouth State College
- Rogalus, Paul W. (1990)**  
*Professor of English*  
BA, University of Rhode Island; MA, Boston College; PhD, Purdue University
- Rollison, Laura E. (2005)**  
*Adjunct Faculty, English*  
BS, New York University; MA, Dartmouth College

- Rosen, Alan (2006)**  
*Affiliate Faculty, Athletic Training*  
BS, Rutgers University; MD, Albany Medical College
- Rosene, John M. (2003)**  
*Associate Professor of Physical Education*  
BS, Keene State College; MS, Southern Connecticut State University; DPE, Springfield College
- Rudmin-Chong, Lynn (2000)**  
*Adjunct Faculty, English*  
BA, MA, University of New Hampshire
- Sandy, Leo R. (1996)**  
*Professor of Counselor Education, College of Graduate Studies*  
BA, University of Massachusetts; MEd, EdD, Boston University
- Santore, Jonathan C. (1994)**  
*Professor of Music; Department Chair*  
AB, Duke University; MM, University of Texas at Austin; PhD, University of California-Los Angeles
- Savage, Sharon L. (2007)**  
*Adjunct Faculty, Communication and Media Studies*  
BS, Plymouth State College
- Scalese, Vincent (2000)**  
*Adjunct Faculty, Psychology*  
BA, University of Massachusetts; MEd, Fitchburg State College; EdD, Western Michigan University
- Scheinman, John (1999)**  
*Adjunct Faculty, Physical Education; Athletic Coach*  
BA, Marist College; MEd, Keene State College
- Schinaman, Scott A. (2008)**  
*Adjunct Faculty, Health Education*  
BA, National University; MA, University of San Francisco
- Schroeder, Kurt A. (1994)**  
*Professor of Geography and Environmental Planning*  
BA, University of Minnesota; MS, PhD, Pennsylvania State University
- Schwartz, Warren E. (2009)**  
*Adjunct Faculty, Psychology*  
BA, Skidmore College; MA, University of Missouri; PhD, Illinois School of Professional Psychology
- Scott, Kristen J. (2008)**  
*Instructional Assistant, Athletic Training*  
BS, Colby-Sawyer College
- Sevigney, Marylena C. (2008)**  
*Adjunct Faculty, Art*  
BFA, Rhode Island School of Design; MFA, University of Massachusetts Dartmouth
- Sevigney, Nicholas (2008)**  
*Assistant Professor of Ceramics*  
BFA, University of Hartford; MFA, Southern Illinois University Carbondale
- Shapiro, Susan A. (2007)**  
*Contract Faculty in Education*  
BA, Wittenberg University; MEd, University of New Hampshire
- Shehadi, Elizabeth (2007)**  
*Adjunct Faculty, Social Work*  
BA, Albright College; MSW, University of Connecticut
- Shen, Zhizhang (1990)**  
*Professor of Computer Science and Technology*  
BS, Zhejiang University; MA, Queens College (CUNY); MPhil, Graduate School (CUNY); PhD, City University of New York
- Shirley, Sheryl L. (1995)**  
*Associate Professor of Political Science*  
BA, California State Polytechnical Institute-Pomona; MA, PhD, University of Texas at Austin
- Smith, Delilah R. (2007)**  
*Adjunct Faculty, Health Education*  
BS, MEd, Plymouth State University
- Smith, Kathi J. (2008)**  
*Adjunct Faculty, Art*  
BFA, University of Southern Maine; MFA, University of New Hampshire
- Sokol-Chang, Rosemarie I. (2008)**  
*Adjunct Faculty, Psychology*  
AA, Simon's Rock College of Bard; BA, Kentucky State University; MA, PhD, Clark University
- Sousa, Lenore (2007)**  
*Adjunct Faculty, Dance*  
BA, Dickinson College
- Sparks, Richard E. (1994)**  
*Associate Professor of Marketing*  
BA, MA, University of Missouri; PhD, Manchester University Business School (England)
- Spencer, Larry T. (1967)**  
*Professor Emeritus of Biology; Adjunct Faculty*  
BS, Brigham Young University; PhD, Colorado State University
- Spradley, Lisa D. (2007)**  
*Assistant Professor of Childhood Studies*  
BS, MEd, Texas Woman's University; EdD, Texas A & M University
- Staples, Alice (1995)**  
*Associate Professor of Library and Information Science; Sabbatical Spring 2010*  
BA, State University of New York College at Oswego; MLS, University of Arizona
- Starbuck, David R. (1993)**  
*Associate Professor of Anthropology; 2008 Award for Distinguished Scholarship; Sabbatical Fall 2009*  
BA, University of Rochester; MPhil, PhD, Yale University
- Stearns, Pamela (2001)**  
*Adjunct Faculty, Art History*  
BA, MA, Vermont College
- Stelmok, Kristin M. (2007)**  
*Adjunct Faculty, English*  
BA, MA, University of Maine
- Stiller, Evelyn M. (1996)**  
*Professor of Digital Media; Sabbatical 2009–2010*  
BS, MS, PhD, Florida State University
- Sullivan, James C. (2002)**  
*Adjunct Faculty, Computer Science and Technology*  
BS, Boston University; MS, Franklin Pierce College
- Sutton, Donald A. (2008)**  
*Adjunct Faculty, Business*  
BS, US Air Force Academy; MBA, University of Pennsylvania
- Swift, Robert F. (1979)**  
*Professor of Music; 1998 Distinguished Teaching Award*  
BS, Hartwick College; MA, PhD, Eastman School of Music
- Switzer Jr., Alan (1991)**  
*Adjunct Faculty, Physical Education*  
AB, EdM, Harvard University
- Swope, Susan (1987)**  
*Professor of Chemistry*  
BS, Bates College; PhD, University of New Hampshire
- Talbot, David C. (2002)**  
*Contract Faculty in Business*  
BSBA, University of Denver; CGS, National School of Banking (Brown University); MBA, Plymouth State College
- Templeton, Peter (1992)**  
*Adjunct Faculty, Piano*  
BA, Plymouth State College
- Thornton, Richard L. (2007)**  
*Adjunct Faculty, Business*  
BS, MS, University of New Haven (now Springfield College); CAGS, EdD, Boston University

**Tillar, Elizabeth K. (2007)**

*Adjunct Faculty, Philosophy*  
BA, MA, University of New Mexico; MA,  
Colgate Rochester Divinity School; PhD,  
Fordham University

**Tirrell, Zachary B. (2004)**

*Adjunct Faculty, Computer Science*  
BS, Plymouth State University

**Tolson, Aaron A. (2006)**

*Adjunct Faculty, Dance*  
BS, Saint John's University

**Tomkiewicz, Warren C. (1988)**

*Professor of Natural Science Education;  
Department Chair*  
BED, Plymouth State College; MS,  
Northeastern University; EdD, Boston  
University

**Tomlinson, Geoffrey A. (2004)**

*Adjunct Faculty, Education*  
BA, Roger Williams University; MEd,  
Plymouth State University

**Toms, Matthew (2006)**

*Adjunct Faculty, Adventure Education*  
BS, Colby College

**Travis, Lisa A. (2005)**

*Adjunct Faculty, Dance*

**Trudeau, Elaine B. (2008)**

*Adjunct Faculty, English*  
AB, College of New Rochelle; MEd,  
University of Louisville

**True, Marianne M. (1999)**

*Associate Professor of Education; 2005  
Distinguished Graduate Teaching Award in  
Education*  
BA, Boston College; MEd, CAGS, Plymouth  
State College; PhD, University of Sarasota

**Turski, Mark P. (1991)**

*Professor of Natural Science Education and  
Environmental Science and Policy*  
BS, MEd, University of Maine Orono; PhD,  
University of Texas at Austin

**Turtle, Sarah (2000)**

*Adjunct Faculty, Biology*  
BA, Hartwick College; MS, PhD, University  
of New Hampshire

**Ueland, Amy (2001)**

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## Appendix



## Credits Awarded for Acceptable ADVANCED PLACEMENT Test Scores

	CREDITS FOR SCORE OF THREE	CREDITS FOR SCORE OF FOUR	CREDITS FOR SCORE OF FIVE	GENERAL EDUCATION SATISFIED	APPLICATION OF CREDIT OR PSU EQUIVALENCY
ADVANCED PLACEMENT TEST					
Art History	3	3	3	PPDI	
Biology	8	8	8	SIDI	BIDI 1010–1020
Calculus AB	0	4	4	QRCO	MA 2550
Calculus BC	4 MA 2550	8 MA 2550 + MA 2560	8 MA 2550 + MA 2560	QRCO	Depends on score
Chemistry	8	8	8	QRCO TECO	CH 2130–2140 and CH 2230–2240
Computer Science A	0	0	4		CS 2370
Computer Science AB	0	0	4		CS 3220
English Language & Composition	0	3	3	COMP	EN 1200
English Literature & Composition	0	3	3	CTDI	
Environmental Science	4	4	4	SIDI	
European History	3	3	3	PPDI	HI 1120
French Language	3 FR 1020	6 FR 2010 + FR 2020	6 FR 2010 + FR 2020	DICO GACO	Depends on score
French Literature	0	0	3		FR 3210
German Language	3 GR 1020	6 GR 2010 + GR 2020	6 GR 2010 + GR 2020	GACO	Depends on score
Government/Politics: Comparative	3	3	3	GACO	
Government/Politics: US	3	3	3		PO 1020
Human Geography	3	3	3	GACO	GE 1020
Italian Language and Culture	0	0	3	GACO	
Latin Literature	0	0	3	CTDI	
Latin: Vergil	0	0	3	CTDI	
Macroeconomics	0	3	3	GACO	EC 2550
Microeconomics	0	3	3		EC 2560
Music Theory	0	4 MU 1210	8 MU 1210 + MU 1220		Depends on score
Physics B	4 PH 2130	8 PH 2130 + PH 2140	8 PH 2130 + PH 2140		Depends on score
Physics C: Electricity/Magnetism	4 PH 2420 + PH 2440	4 PH 2420 + PH 2440	4 PH 2420 + PH 2440		
Physics C: Mechanics	4 PH 2410 + PH 2430	4 PH 2410 + PH 2430	4 PH 2410 + PH 2430		
Psychology	0	3	3		PS 2010
Spanish Language	3 SP 1020 or SP 1120	6 SP 2010 + SP 2020	6 SP 2010 + SP 2020	DICO GACO	Depends on score
Spanish Literature	0	0	3		SP 3200 or SP 3300
Statistics	0	3	3	QRCO	MA 2300
Studio Art–2-D Design	3	3	3		See department chair with portfolio
Studio Art–3-D Design	3	3	3		See department chair with portfolio
Studio Art–Drawing	3	3	3		See department chair with portfolio
United States History	6	6	6	PPDI	
World History	3	3	3	PPDI	

[collegeboard.com/student/testing/ap/subjects.html](http://collegeboard.com/student/testing/ap/subjects.html)

## Credits Awarded for Acceptable CLEP Scores

CLEP EXAM	MINIMUM SCORE REQUIRED	CREDITS AWARDED	GENERAL EDUCATION SATISFIED	APPLICATION OF CREDIT OR PSU EQUIVALENCY
American Government	50	3		PO 1020
American Literature	50	6	CTDI	
Analyzing and Interpreting Literature	50	3	CTDI	
Biology	50	6	SIDI	BIDI 1010 and BIDI 1020
Calculus	50	4	QRCO	MA 2550
Chemistry	50	8	QRCO TECO	CH 2130–2140 and CH 2230–2240
College Algebra	50	3	MATH	MA 1800
College Mathematics	50	3	QRCO	MA 1500
English Composition	50	3	None	Elective only
English Literature	50	6	CTDI	
Financial Accounting	50	4		BU 1150
French Language–Level 1 (2 semesters)	50	6	DICO, GACO	FR 1010–1020 or FR 1110–1120
French Language–Level 2 (4 semesters)	59	12	DICO, GACO	FR 1010–1020 and FR 2010–2020 or FR 1110–1120 and FR 2010–2020
Freshman College Composition	50	3	COMP	EN 1200
German Language–Level 1 (2 semesters)	50	6	GACO	GR 1010–1020
German Language–Level 2 (4 semesters)	60	12	GACO	GR 1010–1020 and GR 2010–2020
History of the United States I: Early Colonizations to 1877	50	3	PPDI	
History of the United States II: 1865 to Present	50	3	PPDI	
Human Growth and Development	50	3		PS 2050
Humanities	50	6	CTDI	
Information Systems and Computer Applications	50	3	TECO	CS 1100
Introduction to Educational Psychology	50	3		PS 2060
Introductory Business Law	50	3		BU 2480
Introductory Psychology	50	3		PS 2010
Introductory Sociology	50	3	DICO	SO 2220
Natural Sciences	50	6	SIDI	CHDI 1760 and BI 2500
Precalculus	50	4	QRCO,TECO	MA 2140
Principles of Macroeconomics	50	3	GACO	EC 2550
Principles of Management	50	3		Elective
Principles of Marketing	50	3		BU 2450
Principles of Microeconomics	50	3		EC 2560
Social Sciences and History	50	6	PPDI	
Spanish Language–Level 1 (2 semesters)	50	6	DICO, GACO	SP 1010–1020 or SP 1110–1120
Spanish Language–Level 2 (4 semesters)	63	12	DICO, GACO	SP 1020–1020 and SP 2010–2020 or SP 1110–1120 and SP 2010–2020
Western Civilization I: Ancient Near East to 1648	50	3		HI 2005
Western Civilization II: 1648 to Present	50	3		HI 2015

Credit is granted in accordance with the recommendations of the Council on College Level Examinations of the College Entrance Examinations Board and the American Council on Education.

[collegeboard.com/student/testing/clep/exams.html](http://collegeboard.com/student/testing/clep/exams.html)



## Credits Awarded for Acceptable DANTES Scores

DANTES EXAM	MINIMUM SCORE REQUIRED	CREDITS RECOM- MENDED	GENERAL EDUCATION SATISFIED	APPLICATION OF CREDIT OR PSU EQUIVALENCY
A History of the Vietnam War	44	3 B	PPDI	2000-level elective
Art of the Western World	48	3 B		AH 1120
Astronomy	48	3 B	SIDI	PHDI 2300
Business Law II	44	3 BU		BU 4040
Business Mathematics		Zero		Not acceptable
Criminal Justice	400	3 B		CJ 1010
Environment and Humanity: The Race to Save the Planet	46	3 B	SSDI	
Ethics in America	400	3 B	DICO	PY 1120
Foundations of Education	46	3 B		Elective
Fundamentals of College Algebra	400	3B	MATH	MA 1800
Fundamentals of Counseling	45	3 B		Elective
General Anthropology	47	3 B	GACO	AN 2210
Here's to Your Health	400	3 B	WECO	
Human/Cultural Geography	48	3 B	GACO	
Human Resource Management	46	3 B		BU 3180
Introduction to Business	46	3 B		BU 2250
Introduction to Computing	400	3 B	TECO	CS 1100
Introduction to Law Enforcement	45	3 B		CJ 3050
Introduction to the Modern Middle East	47	3 B	PPDI	
Introduction to World Religions	400	3 B	GACO	
Lifespan Developmental Psychology	46	3 B		PS 2050
Management Information Systems	400	3 BU		BU 3240
Money and Banking	48	3 BU		EC 4460
Organizational Behavior	48	3 B	DICO	BU 3420
Personal Finance	400	3 B		BU 3390
Physical Geology	46	3 B		ES 2100
Principles of Finance	46	3 BU		BU 3210
Principles of Financial Accounting	47	3 B		BU 1150
Principles of Physical Science I	47	3 B		
Principles of Public Speaking	47*	3 B		CM 2400
Principles of Statistics	400	3 B	QRCO	MA 2300
Principles of Supervision	46	3 B		Elective
Rise and Fall of the Soviet Union	45	3 B	PPDI	2000-level elective
Substance Abuse	400	3 BU	WECO	HE 3700
Technical Writing	46	3 B		EN 3090 (not TECO)
The Civil War and Reconstruction		Zero		not acceptable
Western Europe Since 1945	45	3 B	PPDI	

B=Baccalaureate program

BU=Baccalaureate Upper-division

\*In addition to a minimum score of 47 on the multiple-choice test, an examinee must also receive a passing grade on the speech.

Credit recommendations have been determined by the American Council on Education.

[getcollegecredit.com](http://getcollegecredit.com)

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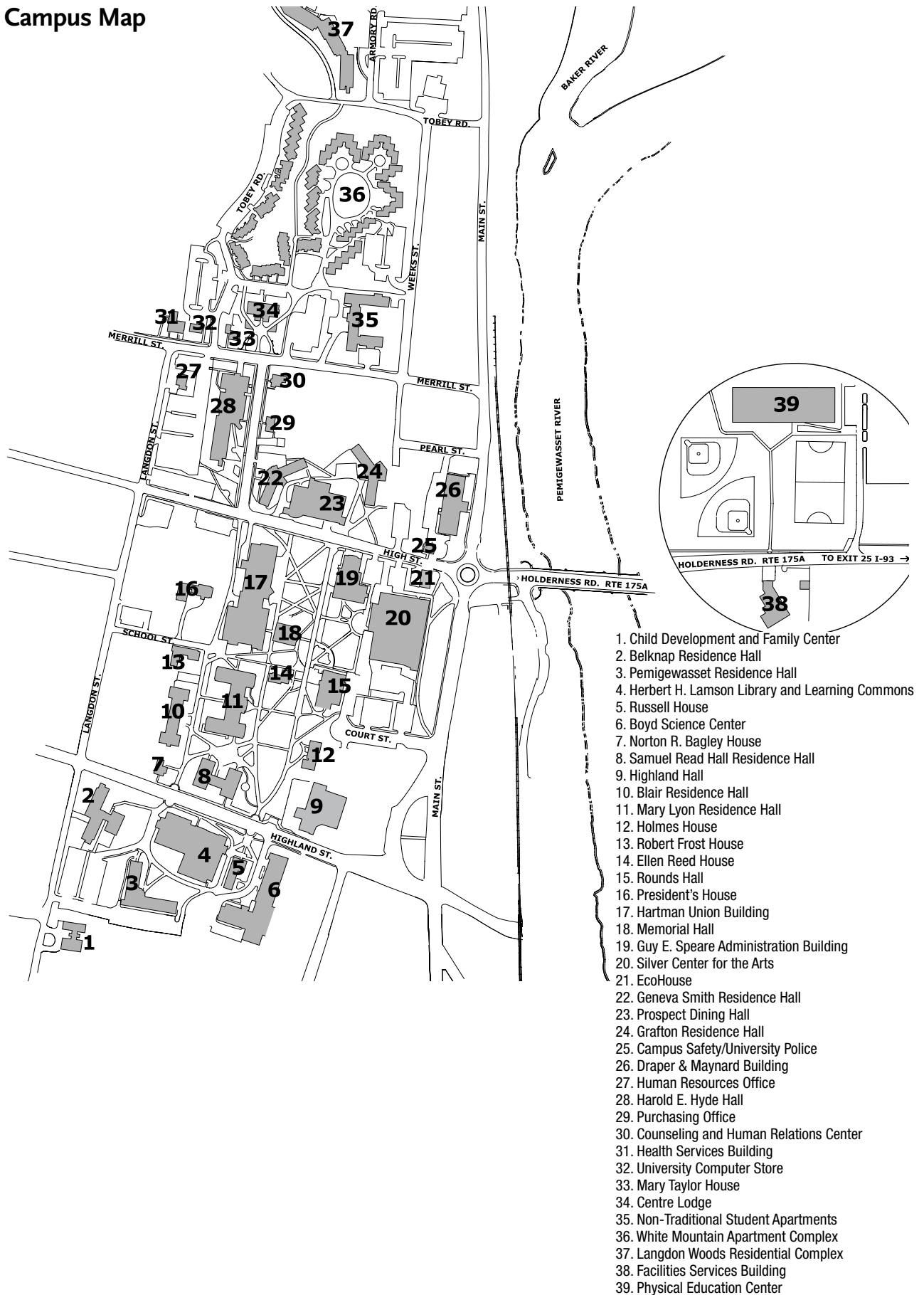
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# Campus Map





# Plymouth State University of the University System of New Hampshire

17 High Street  
Plymouth NH 03264-1595  
(603) 535-5000  
plymouth.edu

## ACADEMIC CALENDAR 2009–2010

### NEW STUDENT ORIENTATION 2009

Session A	May 31–June 1
Session T (Transfer and Part-time Students)	June 5
Session B	June 7–8
Session C	June 10–11
Session D	June 14–15
Session E	August 30–31

### FALL SEMESTER 2009

Registration Day	August 31
Activities for all new students begin at 7 p.m.	August 31
Fall Convocation	September 1
Classes begin at 8 a.m.	September 2
Labor Day Holiday (no classes)	September 7
Columbus Day Holiday (no classes)	October 12
Second half of the semester begins	October 22
Veterans Day Holiday (no classes)	November 11
Thanksgiving Recess begins at 9 p.m.	November 24
Travel Day (no classes)	November 25
Classes resume at 8 a.m.	November 30
Reading Days	December 12–13
Final Week of the Semester	December 14–18

### WINTERIM 2010

Martin Luther King, Jr. Day (no classes)	January 4–28
	January 18

### SPRING SEMESTER 2010

New Student Orientation	January 29
Registration Day	January 29
Classes begin at 8 a.m.	February 1
Winter Carnival (classes begin at 5:30 p.m.)	February 10
Spring Vacation begins at 3:20 p.m.	March 19
Classes resume at 8 a.m.	March 29
Second half of the semester begins	March 29
Graduate Commencement (10 a.m.)	May 15
Reading Days	May 15–16
Final Week of the Semester	May 17–21
Spring Convocation	May 21
Undergraduate Commencement (10 a.m.)	May 22

### SUMMER SESSIONS 2010

Undergraduate Session	June 1–August 13
Independence Day Holiday (no classes)	July 5
Graduate Session	See Graduate Catalog

## ACADEMIC CALENDAR 2010–2011

### NEW STUDENT ORIENTATION 2010

Session A	June 6–7
Session T (Transfer and Part-time Students)	June 11
Session B	June 13–14
Session C	June 16–17
Session D	June 20–21
Session E	August 30–31

### FALL SEMESTER 2010

Registration Day	August 30
Activities for all new students begin at 7 p.m.	August 30
Fall Convocation	August 31
Classes begin at 8 a.m.	September 1
Labor Day Holiday (no classes)	September 6
Columbus Day Holiday (no classes)	October 11
Second half of the semester begins	October 21
Veterans Day Holiday (no classes)	November 11
Thanksgiving Recess begins at 9 p.m.	November 23
Travel Day (no classes)	November 24
Classes resume at 8 a.m.	November 29
Reading Days	December 11 and 12
Final Week of the Semester	December 13–17

### WINTERIM 2011

Martin Luther King, Jr. Day (no classes)	January 3–27
	January 17

### SPRING SEMESTER 2011

New Student Orientation	January 28
Registration Day	January 28
Classes begin at 8 a.m.	January 31
Winter Carnival (classes begin at 5:30 p.m.)	February 16
Spring Vacation begins at 3:20 p.m.	March 18
Classes resume at 8 a.m.	March 28
Second half of the semester begins	March 28
Graduate Commencement (10 a.m.)	May 14
Reading Days	May 14–15
Final Week of the Semester	May 16–20
Spring Convocation	May 20
Undergraduate Commencement (10 a.m.)	May 21

### SUMMER SESSIONS 2011

Undergraduate Session	May 31–August 12
Independence Day Holiday (no classes)	July 4
Graduate Session	See Graduate Catalog

*Subject to change*