

1995

## University of Southern Maine Undergraduate Catalog 1995-1996

University of Southern Maine

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UNIVERSITY OF  
**Southern Maine**

**UNDERGRADUATE CATALOG  
1995-1996**





# University of Southern Maine

Undergraduate Catalog  
1995-1996

University of Southern Maine

Gorham mailing address: University of Southern Maine, 37 College Avenue, Gorham, Maine 04038

Portland mailing address: University of Southern Maine, P.O. Box 9300, 96 Falmouth Street, Portland, Maine 04103

Lewiston-Auburn mailing address: Lewiston-Auburn College, 51-55 Westminster Street, Lewiston, Maine 04240

The University's main telephone number: (207) 780-4141 or 1-800-800-4876 and TDD (207) 780-5646

# Welcome

Dear Student,

The University of Southern Maine is an energetic, challenging, yet personal and caring academic institution dedicated to student success. The faculty are active scholars-teachers who take great pride in their expertise and in their abilities to motivate students to reach their potential. The staff are prepared to assist in any way possible to ensure that your experience as a student is a rewarding one.

In this catalog you will find descriptions of an extraordinary array of programs and learning opportunities both inside and outside the classroom. I hope it provides you with the information you need to make the most of your educational experience here at USM.

The faculty, staff, and students join me in welcoming you to our community of learners; we look forward to sharing in the learning process with you.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard L. Pattenaude", with a long horizontal flourish extending to the right.

Richard L. Pattenaude  
President

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The University of Southern Maine is accredited by the New England Association of Schools and Colleges which accredits schools and colleges in six New England states. Membership in the Association indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators.

The University of Southern Maine shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, national origin or citizenship status, age, disability, or veterans status and shall comply with Section 504, Title IX, and the ADA in employment, education, and all other areas of the University. Inquiries about discrimination in any area of the University should be directed to EEO Director, Sue Ellen Bordwell, 7 College Avenue, Gorham, Maine 04038, (207) 780-5094, TDD (207) 780-5646 or to the Office of Civil Rights, U.S. Department of Education, Region I, John W. McCormack Post Office and Courthouse Building, Boston, Massachusetts 02109, (617) 223-9692.

The University of Southern Maine reserves the right to revise, amend or change items set forth in this catalog from time to time. Accordingly, readers of this catalog should inquire as to whether any such revisions, amendments or changes have been made since the date of publication. The University reserves the right to cancel course offerings, to set minimum and maximum size of classes, to change designated instructors in courses, and to make decisions affecting the academic standing of anyone participating in a course or program offered by the University of Southern Maine.

The University of Southern Maine supports the efforts of secondary school officials and governing bodies to have their schools achieve regional accredited status to provide reliable assurance of the quality of educational preparation of its applicants for admission.

# Academic Calendar 1995-1996

## *Fall Semester*

Classes Begin	Tuesday, September 5
October Vacation Begins	After all classes, Saturday, October 7
Classes Resume	8:00 a.m., Wednesday, October 11
Thanksgiving Vacation Begins	After all classes, Tuesday, November 21
Classes Resume	8:00 a.m., Monday, November 27
Last Day of Classes	Saturday, December 16
Final Exams Begin	Monday, December 18
Final Exams End	Friday, December 22

## *Spring Semester*

Classes Begin	8:00 a.m., Tuesday, January 16
Winter Vacation Begins	After all classes, Saturday, February 17
Classes Resume	8:00 a.m., Monday, February 26
Spring Vacation Begins	After all classes, Saturday, March 23
Classes Resume	8:00 a.m., Monday, April 1
Last Day of Classes	Saturday, May 4
Final Exams Begin	Monday, May 6
Final Exams End	Friday, May 10
Commencement	Saturday, May 11



# The University

Each college and university in the country likes to think of itself as unique, as offering experiences unavailable at other institutions of higher learning. To be sure, the University of Southern Maine has many characteristics typical of medium-sized, public universities elsewhere in the United States. It comprises seven academic units (Applied Science, Arts and Sciences, Business, Education, Law, Lewiston-Auburn College, and Nursing); it enrolls over 9,500 students, and is the second largest of the seven campuses in the University of Maine System; it offers three associate and thirty-eight baccalaureate degree programs, as well as graduate and professional degrees in law, nursing, business, applied immunology, computer science, education, engineering, American and New England studies, manufacturing management, occupational therapy, statistics, public policy and management, and school psychology.

But the University does have many unique features. It is both large and small. With 1,000 students in residence on the Gorham campus and in Portland Hall, located in downtown Portland, the University has many of the characteristics of a rural, New England college. At the same time, located in Portland, the state's largest city and the center of financial, business, and cultural activities, the University makes available resources, opportunities, and experiences usually found only in much larger institutions. In addition to these two campuses, the Lewiston-Auburn College serves students in central Maine.

The student body of the University is the most diverse in the state of Maine. Approximately half are full-time students; more than 59 percent are women, and the average age of an undergraduate student is 27. This diversity of age provides a lively and challenging environment for learning; a context in which scholarship and the experience gained from living complement one another.

The University is also the most cosmopolitan of Maine institutions of higher education. There is easy access to the cultural and social resources of Boston and New York, as well as those of Portland. The City of Portland and the University cooperate to provide internships for students in political science, law, sociology, nursing, and related areas. There is heavy use by the University of community resources including art institutions, museums, television, and skilled professionals who serve as part-time faculty. The University engages in a broad range of ventures with municipal, county, state, and federal agencies, as well as with private foundations and industry. These all serve to provide the student with formal and informal learning opportunities in the areas of the arts, humanities, politics, business, mass communication, and high technology. The University maintains strong international affiliations with colleges and universities in England, Ireland, the Netherlands, Canada, Russia, Ukraine, Japan, Mexico, Latvia and the People's Republic of China.

Most important, however, the University continues to grow and develop. At a time when many colleges and universities in the country are struggling with declining enrollments, drastically curtailed resources, and a need to redefine their mission, this University, by virtue of its location, range of student body, quality of faculty, and level of support, is responding creatively to its particular circumstances and the challenges of its students. A Core curriculum has been established to define the types of skills and the kinds of learning experiences our graduates should have in today's world. A University Honors Program provides an enriched undergraduate education to a selected group of students who are outstanding in their ability, curiosity, creativity, and motivation. The University continually attempts to strengthen its commitment to serve the needs of off-campus students, in-service teachers, and professionals on-site in business and industry. As an urban comprehensive institution, the University is thus a major educational force in the overall growth and improvement of southern Maine: an area often described as the northern part of the business, industrial, and cultural corridor stretching from Washington, D.C., through New York and Boston.

But ultimately, a university must be judged on the basis of its impact upon its students and in terms of the value it imparts to those who join its community. Students at the University of Southern Maine find themselves challenged by a talented and dedicated faculty, stimulated by a diverse and involved student body, and enriched by the type of environment that Portland, one of the country's "most livable cities," affords.

The University of Southern Maine is accredited by the New England Association of Schools and Colleges, indicating the University meets or exceeds Association standards; the School of Nursing is accredited by the National League for Nursing; the College of Education and Human Development by the National Council for Accreditation of Teacher Education; and several departments within the College of Arts and Sciences and the College of Education by specialized accrediting bodies. The University of Maine School of Law is approved by the American Bar Association and the Association of American Law Schools.

# Programs of Study

The University of Southern Maine offers three associate and thirty-eight baccalaureate degree programs as well as graduate and professional degrees in law, nursing, applied immunology, business, computer science, statistics, New England studies, school psychology, education, and public policy and management. For further information regarding graduate programs, please refer to the Graduate Catalog.

## *Baccalaureate Degree Programs*

### *College of Arts and Sciences*

Applied Chemistry (B.S. degree)	Geology
Art (B.A. degree or B.F.A. degree)	History
Biology (including pre-med, pre-dental and pre-vet)	Mathematics
Chemistry	Music (B.A. degree or B.M. degrees in Performance or Music Education)
Communication	Philosophy
Criminology	Physics
Economics	Political Science
English	Psychology
Environmental Science and Policy	Self-Designed Major**
French	Social Work
Geography-Anthropology	Sociology
	Theatre

\*\*Self-Designed Major: Approval of the program must be given by the Self-Designed Major Committee after students have enrolled at the University.

Potential programs include:

Biotechnology	International Studies
Classical Studies	Linguistics
Foreign Languages	Russian Studies
French Studies	Social Science
German Studies	Women's Studies
Hispanic Studies	

### *Lewiston-Auburn College*

- Arts and Humanities (B.A.)
- Management and Organizational Studies (B.S.)
- Natural and Applied Science (B.A.)
- Social and Behavioral Sciences (B.A.)

### *School of Applied Science*

- Applied Technical Education (B.S.)
- Applied Technical Leadership (B.S.)
- Computer Science (B.S.)
- Electrical Engineering (B.S.)
- Industrial Technology (B.S.)
- Technology Education (B.S.)

This University also offers the first year of the four-year program common to other engineering majors and the first and second years in civil engineering and mechanical engineering. These offerings meet the general requirements of the corresponding programs at the University of Maine in Orono. The University of Maine extends preferred transfer consideration to Maine residents.

### *School of Nursing*

- Nursing (B.S.)
- Therapeutic Recreation (B.S.)

### *School of Business*

- Business Administration (B.S.) (with majors in business administration and accounting)

***Associate Degree  
Program***

*College of Arts and Sciences*  
Liberal Arts (A.A.)

*School of Nursing*  
Therapeutic Recreation (A.S.)

*School of Business*  
Business Administration (A.S.) (with concentrations in accounting; computer; management; marketing; hotel, motel, and restaurant management)

For further information regarding baccalaureate and associate degree programs, please refer to the appropriate school or college section of this catalog.

# Undergraduate Admissions

The University of Southern Maine is an academic community that welcomes applications for admission from qualified women and men regardless of race, color, religion, sexual orientation, national origin or citizenship status, age, handicap, or veteran status. The University seeks candidates whose academic achievement and motivation indicate success in an undergraduate program. The Admissions Office invites prospective students to visit the campus to discuss their educational interests. The Office will provide information about academic programs, discuss admission requirements and procedures, and arrange campus tours. Prospective students are encouraged to telephone or visit the Admissions Office (207-780-5670) located in Corthell Hall on the Gorham campus.

## *Admissions Requirements*

With the exception of early admission applicants, a high school diploma or General Equivalency Development (GED) certificate is required for admission to the University. Although secondary school preparation may vary, the following college preparatory subjects are required for regular admission to the University. In addition to these, further requirements are imposed by individual schools and colleges. (A unit is equivalent to one year of study.)

### *General subject requirements (University-wide)*

English	4 units
Mathematics	3 units (Algebra I, II, and Geometry)
Science	2 units (with lab)
History/Social Science	2 units

### *Applicants to the College of Arts and Sciences must also have:*

Foreign Language 2 units (one language)

Science majors, including those interested in environmental science and policy, must have three lab units of science. Foreign language majors must have three units of a foreign language. Mathematics majors are required to have four units of mathematics.

### *Applicants to the School of Nursing*

Nursing candidates must have biology and chemistry. Each student must also satisfy specific academic standards in order to qualify for the clinical portion of the degree program. For further details, please refer to the School of Nursing section of this catalog.

### *Applicants to the School of Business*

A fourth year of college preparatory mathematics (trigonometry, calculus, etc.) is strongly recommended.

Associate degree candidates should refer to the appropriate section of the catalog for further information on admission requirements.

### *Applicants to the School of Applied Science*

Preparation for engineering should include chemistry, physics, and mathematics including algebra and geometry. Departmental interviews in person or by telephone are required for admission into the industrial technology, technology education, and applied technical education/leadership majors.

### *Applicants to Lewiston-Auburn College*

Lewiston-Auburn College applicants must meet all University general subject requirements. Applicants should make an appointment with a USM advisor at Lewiston-Auburn College, 783-4860, to discuss their career goals in relation to the academic programs offered by the college.

*Special Note:* For specific admissions requirements of the degree program in music education, please refer to the Music Department section of the catalog.

## ***Admissions Procedures***

Admission to degree programs at the University is on a selective basis. Each applicant for admission is required to submit a completed University of Maine System Application Form and a nonrefundable \$25 application fee. The Application Form requires the applicant to detail his/her academic, personal, and recreational background. In addition, the candidate is asked to describe in narrative form his/her interest in the University and the specific degree program for which application is being made.

The University will consider applications for the fall semester at any time beginning in the September of the year prior to the fall semester in which the applicant intends to commence academic study. As some degree programs admit only a limited number of students, applicants are urged to submit their credentials at their earliest possible convenience in order to receive consideration. Applications may also be made to enter the University in the spring semester. These, too, should be submitted early so as to receive full consideration.

Offers of admission may be revoked because of unsatisfactory performance in the final semester of high school or college work.

## ***Admissions Priority Filing Dates***

Applications are reviewed on a rolling basis. Those completed by February 1 for the fall semester and December 1 for the spring semester will receive priority consideration. Completed nursing applications must be received by February 1 for fall admission. Some programs require that applications be received before the recommended priority consideration dates. Contact the Admissions Office for more information regarding these programs. Completed international applications must be received by October 15 and April 15 in order to be evaluated for the spring and fall semesters. Candidates for early admission need to submit completed applications by April 15.

Admission to the University is offered for a specific semester. Anyone choosing not to attend for the semester for which an offer of admission was extended must reapply if they wish to be enrolled in a degree program.

Applications which remain incomplete beyond the specified deadline cannot be approved. Applicants who are in this situation may request reactivation of their application for the following semester.

## ***Admissions Decisions***

The University recognizes that its prospective students may come with differing academic backgrounds and some with significant time having elapsed since completion of secondary school. The following categories of admission exist to accommodate such students.

*Regular Admission* Applicants whose academic backgrounds demonstrate the ability to pursue regular, entry level coursework may be granted regular acceptance to the University. This admissions decision is based upon a comprehensive evaluation of the student's educational record, including standardized test scores (if required), as well as individual talents and activities.

*Admission with Conditions* Applicants whose academic backgrounds are not complete in some way (e.g., missing academic units), but who show significant promise, may be granted acceptance with conditions. Such students are fully admitted to the University, and pursue their first year of study under the direction of the Enrollment Services Center. Students who are admitted with conditions take a reduced course load (12 credit hours) for the first few semesters. Starting in the fall of 1996, students admitted with conditions will be expected to fulfill terms of a contract that outlines their responsibilities as conditionally admitted students. These students should expect to take longer to complete a degree program at the University than students granted regular admission. Students admitted to associate or baccalaureate degree programs with conditions have up to five and six semesters, respectively, to remove their conditions.

To achieve transition to regular status, the student must complete the minimum proficiency requirements of the University as well as a minimum of 15 credit hours of graded, non-remedial coursework with a grade point average

placing the student in good academic standing. Transition to regular status prior to completion of 15 credit hours may be approved if the student earns an exceptional grade point average. The student's assigned academic counselor will assist in completing the transition.

All applications are considered for regular admission to the University. As part of the review process, the Admissions Office will determine which applicants are to be offered admission with conditions.

*Readmission* Matriculated degree candidates maintain their matriculation status for ten calendar years from the first semester of attendance at the University of Southern Maine. If, for any reason other than dismissal from the University, a student does not register for any length of time during that ten-year period and then resumes registration, no readmission decision will be made. In such cases the student simply files a re-entry form with the Admissions Office. If, however, a student wishes to resume studies as a degree candidate after the ten-year period has elapsed, she or he needs to apply for readmission. Readmission applicants should contact the Transfer Admissions Office for the proper forms.

*Early Admission* Students who have completed their junior year of high school may apply for consideration for admission as fully matriculated freshmen within the College of Arts and Sciences. The Early Admission Program seeks to accommodate those students who display both the intellectual ability and the social maturity to succeed in a university course of study.

Students who wish to receive their secondary school diploma after the completion of one year in the Early Admission Program must obtain the prior approval of their secondary school guidance counselor or principal. Students expecting to receive their secondary school diploma must arrange with the University Registrar to have an official transcript of grades forwarded to the secondary school at the completion of the academic year.

To be eligible for admission, the applicant should have at least a B average and/or rank in the top 15 percent of his or her secondary school class at the end of the junior year. Coursework normally expected to be completed by the end of the junior year includes: three years of English; three years of mathematics beginning at the introductory algebra level; two years of social science/history; two years of biology, chemistry, or physics; and two years of a foreign language. In addition, the applicant should register for and take the Scholastic Assessment Test (SAT) at the earliest possible date and arrange to have the scores forwarded to the director of Admissions at the University. The American College Test (ACT) may be submitted in lieu of the SAT for admissions purposes.

Interested applicants should confer with their secondary school guidance counselor or principal regarding eligibility to participate in the Early Admission Program. The student and the principal/counselor should complete the University application, and along with an official transcript, submit it to the Admissions Office, University of Southern Maine, 37 College Avenue, Gorham, Maine 04038.

Students admitted under this program are accorded all the rights and privileges of entering freshmen. Academic advising may be arranged upon request through the College of Arts and Sciences Dean's Office prior to and during the first year of the program.

It is expected that Early Admission Program applicants will apply for the fall semester. Application forms must be submitted as early as possible. For fall semester, all Early Admission applications need to be completed by April 15.

*Admission of International Students* Due to limitations on available financial aid, applications are encouraged only from international students who are able to fund fully their educational expenses from their own resources. To certify this, a Certification of Finances statement must be filed as part of the application process. This form must be fully documented and certified and should accompany the completed application. Applicants whose native language is not English are required to submit scores of the Test of English as a Foreign Language (TOEFL). In addition, all international students must submit test results of the Scholastic Assessment Test (SAT) or the American College Test (ACT). For fall admission, all international student admission credentials must be filed with the Admissions Office no later than April 15.

The deadline for completing applications for spring semester admission is October 15.

*Enrollment as an Undeclared Major Student* Applicants who are undecided regarding their major field of study may request admission as an "Undeclared Major." Undeclared students are assigned an academic counselor in the Enrollment Services Center to assist with appropriate course selection and academic planning while selecting a major field of study. This admission option provides students the opportunity to select their major at an appropriate time during the first 60 credit hours of coursework.

*Enrollment as a Special Student* The University encourages members of the local community to take advantage of its diverse course offerings. Special Students (those not enrolled in a degree program of study) may take regular credit courses for self-interest and enrichment. Special Students are enrolled each semester on a space-available basis and are not eligible for student financial aid awards, guaranteed student loans, veterans' benefits, or participation in athletics. Interested persons are invited to contact the Enrollment Services Center, Payson Smith Hall, on the Portland campus for further information.

Special students hold non-matriculant status, but are required to meet the same academic progress standards as matriculants. In order to apply credits earned at the University of Southern Maine to a degree, the student must be admitted into a degree program. A maximum of 30 credits earned as a non-matriculated University of Southern Maine student can be applied to a University degree.

Because admission to the University is competitive, the academic profile required for acceptance may vary from one semester to the next.

In addition to the requirements noted in the following sections, the Admissions Office may require applicants to supply additional documentation if it is determined that this information will contribute to assessing an applicant's candidacy.

Students who have not graduated from an accredited secondary school may be required to submit SAT or ACT scores and/or Achievement Test results. This information may be requested from applicants regardless of the amount of time that has elapsed since their separation from an educational program.

*Admission from Secondary School* Applicants applying to the University during their senior year in secondary school, or who have been graduated for less than three years and have had no collegiate attendance, must arrange for an official copy of their secondary school transcript to be sent to the Office of Admissions. Final official high school transcripts are required after completion of the applicant's senior year. Applicants who have graduated or will graduate from a non-accredited secondary school may be required to submit GED test results in addition to a secondary school transcript. Scores from the Scholastic Assessment Test (SAT) of the College Board must also be submitted by all students, including those with GEDs, who intend to enroll within three years of high school graduation. Achievement tests of the College Board are not required. The American College Test (ACT) may be substituted for the SAT for admission purposes. If not more than five years old, SAT scores are also used for course placement in mathematics and English.

*Admission of Adult Candidates* Adult candidates must arrange for their secondary school transcript to be sent to the Office of Admissions. Although Scholastic Assessment Test (SAT) scores are not required for admission of adult candidates, they may be submitted for placement purposes as such scores (if not more than five years old) may be used to declare minimum academic proficiencies. An interview with an admissions counselor is highly recommended.

*From Outside the University of Maine System* Applicants who have attempted 12 semester hours of credit or more beyond the secondary school level are classified as transfer students and must submit official copies of collegiate and secondary school records. SAT test results are required for students who have been graduated for less than three years. Transfer candidates who have previously earned a baccalaureate degree must submit their collegiate transcripts for evaluation, but may forego submitting secondary school

## **Admissions Applications**

### **Admission by Transfer**



transcripts and SAT scores. *Quality points do not transfer.*

Students applying for transfer from regionally accredited institutions of higher education must have a grade point average of at least a 2.0 (on a 4.0 scale). Transfer credit may be given for coursework completed at a regionally accredited institution of higher education only if a grade of C– or better has been achieved in those courses.

Students applying for transfer from non-regionally accredited institutions of higher education must have a minimum 2.75 grade point average (on a 4.0 scale) to be considered for admission. No transfer credit will be awarded for coursework completed at non-regionally accredited institutions of higher education. Under special circumstances, students may, in individual cases, petition the dean of the appropriate school or college for consideration of coursework earned from institutions that were candidates for accreditation.

*From Within the University of Maine System* Applicants who have completed coursework at other campuses of the University of Maine System should request an Application Form from the Admissions Office of any University of Maine System campus. Students should request that their transcripts be sent to the USM Admissions Office. This will be done at no cost to the student. Official high school transcripts and SAT test results are required in accordance with the specifications noted in the previous section.

Students must have at least a 2.0 grade point average to be eligible for consideration as a transfer candidate. Students from within the University of Maine System are given preference over all other transfer applicants, but are subject to the same requirements and policies described in this catalog. Coursework completed with a passing grade within the University of Maine System will be granted transfer credit in accordance with Board of Trustee policy. *Quality points do not transfer.*

*Note:* Trustee policy is to provide the maximum opportunity for transfer within the System. When a student is accepted for transfer within the University of Maine System, all undergraduate degree credits obtained at any unit of the University will be transferable to any other unit but will not be automatically applied to the specific academic degree program to which the student has transferred. Each student will be expected to meet the established requirements of the academic program into which transfer is effected, and appropriate application of that credit is the responsibility of the particular academic unit.

## ***Transfer Credit Evaluation***

*Evaluation of Transfer Credits* Undergraduate coursework completed at other institutions of higher education will be evaluated for transfer credit on the basis of the following: whether or not the previous institution was regionally accredited; grades achieved in previous coursework; comparability of courses taken with courses at the University. Credit is not transferred for courses in which the lowest passing grade was earned (exception: courses in which a grade of D was earned are transferable if earned at another campus of the University of Maine System). Courses for which credit is awarded through another institution's credit by examination policy may be granted transfer credit provided both earned credits and grades appear on the transcript and the course is applicable to the student's work at this University. The applicability of transfer credits to USM's Core curriculum and to a student's intended major field of study shall be determined by the Transfer Affairs Office in conjunction with the appropriate academic department, school, or college. Transfer evaluations are assumed to be correct if a student does not direct questions to or enter an appeal with the Transfer Affairs Office within one year of the completion of the evaluation. At that time, the evaluation becomes permanent and will not be changed.

## ***Placement Exams***

*Placement Examination Program* SAT scores (if not more than five years old) are used for course placement in mathematics and English. All newly admitted baccalaureate and associate degree candidates who took the SAT prior to April 1995 and whose SAT mathematics score was below 450 or SAT verbal score was below 470 (or TSWE, Test of Standard Written English, was below 43) must take the placement examinations. All newly admitted baccalaureate and associate degree candidates who took the SAT in April 1995 or later and whose SAT mathematics score was below 480 or SAT

verbal score was below 550 must take the placement examinations. Newly admitted students with SAT scores that are five years or older must take the placement examinations. Transfer and readmitted students with more than 30 earned credits are not required to take the English placement examination. The mathematics placement examination is required of these students unless they have successfully completed at least one semester of collegiate level work in mathematics. Non-matriculated (special) students are encouraged to take the placement examinations and should contact the Enrollment Services Center for details. Copies of the publication, *Placement Examination Program*, are available at the Testing and Assessment Center, Portland campus, and the Enrollment Services Center.

## **Prior Learning Evaluation**

The University recognizes several procedures for the assessment of learning acquired outside a sponsored collegiate setting. This may include standardized examinations (e.g., CLEP, DANTES), or credit for learning gained through paid or unpaid employment, self-directed study, or through avocational talents and skills. For further details regarding the following options, students should contact the Office for Prior Learning Assessment, Payson Smith Hall, Portland campus.

**Advanced Placement** The University participates in the Advanced Placement Program of the College Board. A.P. exams are given in secondary schools. For credit consideration at USM, an official A.P. transcript and a minimum score of 3 are required.

**College Level Examination Program** In certain cases, credit may be given to a student who receives a satisfactory score on a CLEP examination, either the General Examinations or the Subject Examinations. These are as follows:

**General Examinations** The University will grant credit in the following areas for a score of 500 or higher on these CLEP general examinations: English (3 credits, will satisfy ENG 100C); Humanities (6 elective credits); Social Science/History (6 elective credits); Mathematics (6 credits, will satisfy Core curriculum Area D) and Natural Science (6 elective credits).

The five general examinations are designed primarily for students with no previous credits in these areas rather than for upperclass students who have credits beyond the introductory level.

**Subject Examinations** Any subject area CLEP examination which is equivalent to a USM course approved to satisfy a requirement of the Core curriculum may be applied to satisfy the Core curriculum requirement in that subject area.

The following departments, schools, and colleges have established policies relative to the acceptance of CLEP subject credit: College of Arts and Sciences (Biological Sciences, Chemistry, History, Mathematics, Political Science, Psychology, and Sociology); School of Business, and the College of Education and Human Development (Educational Psychology and Human Growth and Development). Interested candidates should contact the Office for Prior Learning Assessment for further information and testing schedules.

**DANTES Exams** Standardized exams are available for department elective or general elective credits through the DANTES program.

**Challenge Examinations** Students in the School of Nursing's RN Studies Option may challenge selected upper-division courses. Students may challenge courses in other schools/colleges, with some restrictions.

**Portfolio Assessment** The University has established a program for assessing learning based on an individual student's portfolio. This program involves a detailed and comprehensive documentation of prior learning, an interview with a faculty assessor, and specific performance or demonstration as appropriate. Details may be obtained from the Office for Prior Learning Assessment.

**Armed Services Experience** The University recognizes credit based on the American Council on Education's *Guide to the Evaluation of Educational Experiences in the Armed Services*. Interested students must provide a DD 214 form, a DD 295, and/or other appropriate credentials for evaluation.

**Employer Training Programs** Students who have participated in training programs and courses offered by employers may qualify for credit evaluations

through the *Program on Non-Collegiate Sponsored Instruction* (PONSI). Details may be obtained from the Office for Prior Learning Assessment.

## ***Preprofessional Programs***

*Pre-Law* There is no specific course of study required of students who are planning to apply to law schools. Since the practice of law covers all fields, the only recommendation that law school admissions officers give to students is that they pursue challenging courses in areas of interest to them and that they do well in these courses. Participation in an honors program definitely enhances a student's admission as does a well-written senior thesis or an independent study.

- a) Students must be able to write clearly. They should take upper level, writing intensive courses in English or other fields.
- b) Students must be able to think clearly and critically. Courses in philosophy, science, and language will be helpful.
- c) Students should understand the social and political context within which the law exists. Courses in sociology, history, and political science are appropriate.
- d) Students may wish to take substantive courses in the law and in legal reasoning. Courses in law and society, civil liberties, civil rights, constitutional law, business law and the rule of law—some of which are offered as undergraduate courses by professors from the University of Maine Law School—may be of interest.

Students who are interested in law should be advised that their overall academic record and performance on the LSAT are much more important than a specific undergraduate major for law school admission.

*Pre-Medical, Pre-Dental, Pre-Veterinary* USM, like most universities, does not have a major in pre-medical, pre-veterinary, or pre-dental studies. Most students who are accepted in a professional school majored in biology or zoology as undergraduates. However, a student does not have to major in science to be accepted to medical, dental, or veterinary medicine school. Approximately one-third of all students accepted to professional schools took the required science courses as electives while pursuing their undergraduate degrees in non-science fields.

Every undergraduate course taken is important regardless of its subject area. Admissions officers in professional schools pay particular attention to the overall academic record and performance on entrance exams when evaluating a candidate's application for admission.

It is also important to have experience in the field of medicine. Most veterinary schools require some type of animal care experience, e.g., volunteer work in an animal hospital. Many medical schools require some type of patient-care experience (EMT, volunteer work in an emergency room).

- As minimum entrance requirements, most professional schools recommend:
- 1 year of college biology with lab (BIO 105, 106; BIO 107, 108)
  - 1 year of inorganic chemistry with lab (CHY 113, 114; CHY 115, 116)
  - 1 year of organic chemistry with lab (CHY 251, 252; CHY 253, 254)
  - 1 year of physics with lab (PHY 111K, 112 or PHY 121-124)
  - 1 semester of mathematics (Statistics recommended)

Some recommended courses are:

- Psychology (PSY 101J)
- Genetics (BIO 301)
- Microbiology (BIO 311, 312)
- Comparative or Human Anatomy (BIO 205 or 211/212)
- General or Human Physiology (BIO 401/402)

## ***New England Regional Program***

In cooperation with the New England Board of Higher Education the University offers undergraduate programs of study at reduced rates of tuition to qualified candidates from the New England states. Because the listing of programs varies from year to year, candidates should check the most up-to-date listings. The following schedule represents the fields of study available at the University in the New England Regional Student Program for 1995-96. The 1996-97 listing will be available from the New England Board of Higher Education during the fall of 1995. Further information is available through

your guidance counselor or the Board at 45 Temple Place, Boston, Massachusetts 02111.

<i>Associate Degree Programs</i>	CT	MA	NH	RI	VT
Therapeutic Recreation	X	O	O	O	O
<i>Bachelor Degree Programs</i>					
Applied Chemistry	O	X	X	X	O
Applied Technical Education	O	O	X	O	O
Criminal Justice/Criminology	X	X	O	O	X
Industrial Technology	X	X	X	X	O
Technology Education	X	X	X	X	O
Therapeutic Recreation	X	O	X	O	O

X = Not open to residents of state.

O = Open to residents of state.

### ***Immunization Requirement***

Maine State law requires all individuals born after December 31, 1956, who plan to enroll in a degree program or plan to take 12 or more credits, to show proof of immunity against measles, mumps, rubella, diphtheria, and tetanus before registering for classes. Immunization records must be on file with Student Health Services before students will be allowed to register for classes.

Specific information about immunization requirements is sent with admissions packets, and is also available in most departments and at Student Health Services.

# Financial Information

Tuition rates are established by the University of Maine System Board of Trustees. The University reserves the right to adjust these charges to respond to changing costs, state and/or federal legislative action, and other matters. Such adjustment may be made at any time. A student acknowledges this reservation by applying for admission or registering for courses.

There are three types of tuition charged: undergraduate, graduate, and law. The level of the course determines the type of tuition charged. Tuition charges are calculated by multiplying the number of credit hours attempted by a rate established by the University. Courses being audited are included in this calculation.

Charges in effect as of July 30, 1995.

## Tuition

### *Undergraduate Tuition Charges Per Credit Hour*

Maine Resident	\$106.00
Non-Maine Resident	\$300.00
New England Regional Program	\$159.00

## Fees

*Activity Fee* A mandatory fee charged each semester. Students registered for at least one but not more than 5.5 undergraduate credits are charged \$10.00; students registered for at least 6 but not more than 11.5 credits are charged \$21.00; students registered for 12 or more are charged \$30.00.

*Advising and Orientation Fee* A mandatory \$50.00 fee is charged to newly admitted undergraduate students. This fee is only charged once.

*Application Fee* A mandatory \$25.00 fee is charged to an applicant who has not previously matriculated at the University of Southern Maine. This fee is only charged once.

*Commencement Fee* A mandatory \$25.00 fee charged to a student who completes degree requirements. This fee must be paid at least six weeks prior to Commencement.

*Course Fees* A mandatory fee is assessed for some courses. These fees cover costs associated with specialized instruction. Additional information is provided in University course listings.

*Installment Payment Fee* A \$20.00 fee is charged to students participating in the University's three and/or four payment plans. There is a \$50.00 fee assessed students enrolling in the ten-payment plan.

*Insufficient Funds Fee* A \$10.00 fee is charged when a student's check is returned or a bank card payment is declined for insufficient funds.

*Late Fee* A maximum of \$50.00 per semester in mandatory late fees is charged to students who do not pay University bills when due.

*Matriculation Fee* A mandatory one-time \$15.00 fee is charged to create a student record when a student begins pursuing a degree within the University of Maine System.

*Parking Fee* The cost of a sticker to park on campus is \$20.00 for one year. The cost of a sticker for Marginal Way parking is \$5.00 for one year.

*Recreation Fee* A mandatory \$4.00 per credit charge assessed to all students.

*Student Health Fee* A mandatory \$25.00 fee per semester is charged to students registered for six or more credits taught on the Portland and/or Gorham campus. This fee partially supports the on-campus health centers as well as health education programming. Students registered for fewer than six credits can voluntarily pay this fee and gain access to the same services. Additional information is available from Student Health Services.

*Student Health Insurance* In cooperation with a local insurance agency, the University gives students registering for more than six credit hours the opportunity to purchase health insurance. The policy covers most accident and sickness expenses not covered by on-campus services or other insurance. The cost is \$455.00 for a full year (September through August) or approximately \$300.00 for coverage beginning in January. Additional information is available from Student Health Services.

*Technology Fee* A mandatory \$3.00 per credit charge assessed to all students.

*Testing and Assessment Fee* A \$10.00 per test fee is assessed to students taking the English or math placement exam.

*Transcript Fee* Students are charged \$3.00 for an official copy of an academic transcript.

## **Room and Board**

*Board* The University offers a variety of meal plans. Information about the meal plans is available from Resident Student Services, Room 100, Upton Hall, Gorham (780-5240).

### *USM Meal Plans*

19- or 16-meal flex plans \$1,098.00 per semester

19-meal Exchange plan 1,098.00 per semester

13-, 10- or 6-meal plans 1,065.00 per semester

*Portland Exchange* The 19-meal plan with Portland Exchange allows students to purchase meals in the Portland Campus Center without using points.

*Commuter Only Meal Plans* Commuter meal plans allow students to purchase food at a discount. Information about the plans is available from Resident Student Services and Dining Services.

Both resident and commuter students may purchase additional points during the semester.

*Room* University residence halls are located on the Gorham campus and at 645 Congress Street, Portland. Information about housing is available from Resident Student Services, Room 100, Upton Hall, Gorham (780-5240). Limited parking may be rented for \$100.00 per semester at the Portland Residence Hall.

Gorham, Double \$1,149.00 per semester

Gorham, Regular Single \$1,349.00 per semester

Gorham, Large Single \$1,529.00 per semester

Portland, Yankee Clipper \$1,324.00 per semester

Portland, A-Wing \$1,230.00 per semester

Portland, 3-4 Person Suite \$1,324.00 per semester

Portland, 1-2 Person Suite \$1,507.00 per semester

Portland, Regular Single \$1,438.00 per semester

Portland, Large Single \$1,490.00 per semester

All rates are based on full occupancy. An additional \$200 is charged in under capacity residences.

*Telephone Fee* Students living in University housing may obtain limited telephone service for \$60.00 per semester. Information about restrictions is available from Resident Student Services.

*Lewiston-Auburn College* USM offers courses at Lewiston-Auburn College in conjunction with the University of Maine at Augusta. A separate cost structure is in effect. For additional information, contact Lewiston-Auburn College.

## **Other Expenses**

*Books and Supplies* Students are responsible for the purchase of books and supplies. Payment is made at the time of purchase.

## **Deposits**

When a student is notified of acceptance into a University degree program, a \$50.00 admission deposit is due within two weeks. Newly admitted students who are approved for on-campus housing must also pay a \$75.00 room deposit.

After a student registers, these deposits are applied to his or her account. These deposits are forfeited if an applicant for September admission withdraws after May 1, or if an applicant for January admission withdraws after January 1. Applicants who provide the Admissions Office with written notification of withdrawal before the previously mentioned dates will have the deposit refunded.

Resident Student Services establishes and publicizes dates for room selection each spring. Students who are registered for spring semester and request on-campus housing for fall are required to pay a \$75.00 room deposit. Usually, this deposit is applied to the fall bill. If a student notifies Resident Student Services that housing is not desired before May 1, this deposit will be refunded. If notification is received after May 1, the deposit is forfeited.

## **Payment Procedures and Policies**

**Billing** The student is responsible for paying all charges. Each semester, the University establishes specific dates for charging students and mailing bills. It is the student's responsibility to maintain accurate home and local addresses at the Registrar's Office. Students who register during some Orientation sessions, the open registration period, and after classes start are billed at the time of registration. The University is not obligated to mail a bill.

**How To Make Payment** The University offers a variety of payment options.

**Cash** Cash payment may be made at the Student Billing Office or at an off-campus center. Cash should not be mailed.

**Checks** Checks should be made payable to the University of Southern Maine. The student's name and Social Security number should be shown on the check.

**Credit Cards** The University accepts MasterCard, Visa, and Discover.

**Financial Aid from USM** The University offers eligible students grants, scholarships, loans, and employment opportunities. Grants, scholarships, and loans are credited for payment of University charges. Additional information can be obtained from Student Financial Aid.

**Installment Payment** The University offers a variety of payment plans. Additional information about these plans and enrollment deadlines is available from Student Billing.

**Outside Scholarships** Students must notify Student Billing of any non-University scholarships to be used to pay University charges prior to the date payment is due. Upon receipt of proper documentation, the University may extend the payment due date.

**Third Party Payments** A student must give Student Billing written authorization from the agency or employer prior to the payment due date. No conditional payment offers will be accepted. If, for any reason the third party does not pay, the student is responsible for all charges.

**When Payment Is Due** Each semester, the University establishes specific dates payment is due and notifies students of these dates on bills and through University publications.

**Adding Courses** Costs associated with credit hours added after the semester begins must be paid at the time of registration.

**Other Charges** After the semester starts, additional charges must be paid as they occur.

A late fee is charged if payment is not received by the due date. Students with past due charges are not allowed to re-register. Students who show a pattern of late payment may be required to pay all University charges before registration is accepted. The University also reserves the right to cancel a current semester's registration, preventing a student from receiving grades or credit for courses, if outstanding charges are not paid.

Transcripts, certification of graduation, and other records will be withheld from students who have not paid all bills and loans due the University. This includes bills for damage to University property, unpaid charges or fines owed due to violation of University motor vehicle regulations, and library fines.

### **Add/Drop**

Students may add and/or drop courses during the first week of the semester without incurring a financial obligation. When a student drops a course after the end of the first week, a tuition refund will be calculated in accordance with the refund schedule shown in the following section. University fees are not refunded after the first week. The schedule adjustment period begins with the first day of scheduled University classes and includes weekends and holidays. The date the Registrar receives written notification that a student is dropping a course is used to determine the amount of refund, if any.

### **Refund Policy**

The charges assessed students who withdraw from the University are adjusted in accordance with the schedules shown below. The date the Registrar receives written notification of withdrawal is used when calculating refunds. A semester begins with the first day of scheduled University classes and includes weekends and holidays.

Failure to notify the Registrar promptly will increase financial liability. A

student who feels the withdrawal was caused by reasons beyond his or her control (extended illness or military service obligations, for example) may petition for special consideration. To be considered, the request must be filed within one year of the end of the semester involved. Charges will not be reduced for voluntary absence from classes. Contact the Student Billing Office for additional information about this procedure.

*Tuition Refunds* Student charges will be refunded to students who are withdrawing from the University of Maine System in accordance with the schedules and provisions set forth below.

For purposes of calculating tuition refunds, the attendance period begins on the opening day of scheduled campus classes, includes weekends and holidays, and ends on the date the student notifies the Registrar in writing that she or he is withdrawing.

1. *Schedules For All Returning Students*

a. ACADEMIC YEAR (Fall and Spring Terms)	<i>Refund Percentage</i>
Cancellation Prior To First Day Of Class	100%
Withdrawal Prior To End Of First Week	100%
Withdrawal Prior To End Of Second Week	90%
Withdrawal Prior To End Of Fifth Week	50%
Withdrawal Prior To End Of Eighth Week	25%
Withdrawal After The Eighth Week	0%
b. OTHER SESSIONS	<i>Refund Percentage</i>
(1) Sessions which are more than three weeks:	
Cancellation Prior To First Days Of Class	100%
Withdrawal Prior To End Of First Week	50%
Withdrawal Prior To End Of Third Week	25%
Withdrawal After The Third Week	0%
(2) Sessions which are three weeks or less:	
Cancellation Prior To First Day Of Class	100%
Withdrawal Prior To End Of First Week	50%
Withdrawal Prior To End Of Second Week	25%
Withdrawal After The Second Week	0%

2. *Schedule For First-Time Students*

First-time students will receive a refund on all institutional charges up to the point where 60% of the enrollment period has elapsed. No refunds will be made after this point in time. The percentage used to calculate the refund will be based on:  $\text{Weeks Remaining} / \text{Total Weeks in Semester} = \text{Percentage of Refund}$ .

*Board Refunds* Students who withdraw from the University are charged for meals at an established daily rate. Additional information is available from Resident Student Services.

*Room Refunds* Students who vacate University housing will be charged in accordance with the terms and conditions of the Residence Hall contract.

There are many factors that will be considered in determining residency for in-state tuition purposes. No one factor can be used to establish domicile; rather, all factors and circumstances must be considered on a case-by-case basis. A domicile or residency classification assigned by a public or private authority neither qualifies nor disqualifies a student for University of Maine System (UMS) in-state status.

A student applying for admission to a degree program is classified as eligible, or not eligible, for in-state tuition at the time of acceptance to the University. A non-matriculated (non-degree) student is classified as eligible, or not eligible, for in-state tuition at the time of registration. The decision, made by the executive director for Financial Resources, or other officials designated by the campus, (this authority is granted to all Admissions directors), shall be made based on information and documentation furnished by the student and other information available to the University. No student is eligible for in-state tuition classification until he or she has become domiciled in Maine, in accordance with University guidelines, before such registration. If the student is enrolled full-time in an academic program, as defined by the University, it will be presumed that the student is in Maine for educational

**Rules Governing  
In-State and  
Out-of-State  
Tuition**



purposes, and that the student is not in Maine to establish a domicile. A residence established for the purpose of attending a UMS campus shall not by itself constitute domicile. The burden will be on the student to prove that he or she has established a Maine domicile for other than educational purposes. An individual who has lived in the state of Maine, for other than educational purposes, one year *prior* to registration or application to a campus is considered an in-state student.

In general, members of the Armed Forces and their dependents will be granted in-state tuition during such periods of time as they are on active duty within the state of Maine or if their military state of residency is Maine as evidenced by appropriate official documentation. A Maine resident who is absent from the state for military or full-time educational purposes will normally remain eligible for in-state tuition.

A student, or spouse of a student, who currently has continuous, permanent full-time employment in Maine before the student decides to apply for degree status at the University will be considered in-state for tuition purposes.

A student who is dependent on his/her parent(s) and/or legally appointed guardian (or to whom custody has been granted by court order) is considered to have a domicile with the parent(s) for tuition purposes.

In-state tuition is not available to anyone who holds a non-immigrant U.S. visa. If an individual is not a domiciliary of the United States, they cannot be a domiciliary of the state of Maine.

A student who attended an out-of-state educational institution at in-state tuition rates in the immediately preceding semester, shall be presumed to be in Maine for educational purposes and not to establish a domicile. Again, the burden will be on the individual to prove that he or she has established a Maine domicile for other than educational purposes.

To change tuition status, the following procedures are to be followed:

- A. A "Request of Change in Tuition Status" must be filed with the executive director for Financial Resources or designee *on or before* the campus's first day of classes for the summer session, fall or spring semester for which residency is requested. All applications shall be prospective.
- B. If the executive director for Financial Resources' written decision, to be issued within 30 days of the first day of classes, is considered incorrect by the student, the student may appeal that decision in writing, within 30 days, in the following order:
  1. The vice president for Administration of the campus. After receiving a written decision from this level within 30 days, the student has 30 days to submit a written appeal to:
  2. The treasurer of the University System whose decision shall be final.

In the event that the executive director for Financial Resources, or other designated official, possesses facts or information indicating a student's change of status from in-state to out-of-state, the student shall be informed in writing of the change in status and will be given an opportunity to present facts in opposition to the change. The student may appeal the decision of the executive director for Financial Resources or other designated official as set forth in the preceding paragraph.

Applications for "A Request for Change in Tuition Status" are available at the Student Billing Office, 110 Corthell Hall, on the Gorham campus, or the Business Office, 128 Payson Smith, on the Portland campus. Completed applications should be returned to the Portland Business Office.

# Student Financial Aid

At some point in the college planning process, the consideration of cost enters into the decision to pursue a college education. A college education is one of the most important investments a student will make. To provide students with an affordable education, the University of Southern Maine Office of Student Financial Aid offers a variety of programs to assist students and families in paying their educational expenses. During the 1994-95 academic year, more than \$25,000,000 was available from aid programs.

## *Eligibility for Aid*

To receive financial assistance, a student must be admitted into a degree program at the University and, in most instances, must be enrolled for at least six credit hours for a semester. Aid can be granted only to U.S. citizens and certain non-citizens. Non-citizens are encouraged to contact the Office of Student Financial Aid for more information.

The deciding factor in the establishment of a student's eligibility for financial aid is that of documented financial "need." That is, when an applicant has been determined to have insufficient family resources to meet the costs of attending the University of Southern Maine, she or he is eligible for assistance. Since the federal government provides most of the funds the University allocates to its students, family resources are assessed in accordance with a formula approved by the U.S. Department of Education.

Students receiving assistance must submit a Statement of Registration Compliance. This form certifies that the student has either registered with the Selective Service Administration (all males born after 1959 are required to register) or is exempt from registration.

Students must also submit a statement certifying that they are not in default on repaying a student loan and do not owe a repayment of federal grant funds. This statement is provided by the Student Financial Aid Office. Students who are in default or owe a repayment are not eligible for assistance.

It is important to remember that financial aid is intended to supplement a student's resources. A basic principle of financial aid programs is that the student and his/her family are expected to contribute, when able, from income and assets to meet college costs.

No student should fail to apply for admission because she or he cannot afford a college education. The Office of Student Financial Aid administers a strong and versatile program. When a student's financial resources are insufficient to meet educational expenses, grants, loans, or employment can usually be made available. If funds are not available from the University, the Office of Student Financial Aid helps students explore other potential sources of aid.

## *Application Procedures*

Students are encouraged to apply for assistance as early as possible. To ensure a fair distribution of funds, a priority filing date is established for fall semester aid applicants. To meet the priority filing date for federal student aid programs, the federal processor must receive your FAFSA or renewal FAFSA by **February 15, 1996**. The FAFSA is the Free Application for Federal Student Aid. Students who want to be considered for the summer College Work Study Program must also meet the above deadline. Federal receipt of the FAFSA will ensure that USM will receive federal application data from the U.S. Department of Education by March 1, 1996. We *must* receive this federal data by March 1 for priority processing.

Applications are accepted after the priority filing date, although the type and amount of aid offered may be reduced subject to funding limitations.

All students must complete a FAFSA. The FAFSA is available from most high school guidance offices or the Student Financial Aid Office. The FAFSA includes detailed instructions for completion. If these instructions are insufficient, please contact the Student Financial Aid Office for help.

Additional financial records required to verify information reported on the FAFSA may be requested under separate cover.

Any student who attended any vocational school or college, other than the

University of Southern Maine, must also submit a Financial Aid Transcript (FAT) form. This form, available from the Office of Student Financial Aid, is completed by the student and sent to the school(s) previously attended. The FAT must be completed even if the student did not receive aid from other school(s) attended.

## *How Financial Aid is Allocated*

The University begins reviewing student aid applications in early spring. Once a student is accepted by the Admissions Office, the FAFSA and appropriate tax returns are received, and the University is told how much federal aid it will have for students, a notice of eligibility is sent.

The amount a student receives is determined by subtracting the student's resources from a budget computed by the Office of Student Financial Aid. This budget is based on typical living and educational costs for a student in a given situation. It may be adjusted if unusual non-discretionary expenses exist.

Students are offered aid in a package which may consist of grant and/or loan and/or work-study. Undergraduate students with prior bachelor's degrees are not eligible to receive grants.

Even after a student is allocated aid, the amount may be adjusted if the student's financial situation changes. Students and parents *must* promptly report any of the following to the Student Financial Aid Office: a change in income; a change in marital status; a change in the number of dependents; a change in residence; a change in the number of credit hours attempted; and the receipt of financial aid from sources other than the University. If a student receives outside scholarship funds, the amount of aid from the University may have to be reduced.

## *Types of Aid Available*

*Federal Pell Grants* This is a federally funded program to help needy students. In 1995-96 grants will vary between \$200 and \$2,300 per academic year.

*Federal Supplemental Educational Opportunity Grants* This is a federally funded program to help needy students. Grants will range from \$100 to \$4,000 during the 1995-96 academic year.

*University and Miscellaneous Scholarships* These are funded by the University and private donors. Awards have ranged from \$100 to \$3,550 and are given on the basis of financial need.

*Federal Work Study Employment* This is a program funded by the University and the federal government. Eligible students may earn between \$600 and \$2,000 per year. A student's financial need governs the amount that can be earned.

*Federal Perkins Loans* Funded by the federal government, the University, and former borrowers repaying loans, this program lends money to needy students. No repayment is required until after the student ceases his/her education. Once repayment begins, the student is charged 5% simple interest on the amount borrowed. While the monthly repayment amount varies with the amount borrowed, a minimum of \$40 must be repaid each month. Loans vary between \$200 and \$2,250 annually.

*Federal Nursing Student Loans* Funded by the federal government, the University, and loans repaid by former borrowers, money is lent to needy nursing students. Repayment terms are similar to those of the Perkins Loan. Loans range from \$200 to \$2,500 for first- and second-year students and from \$200 to \$4,000 for third- and fourth-year students annually.

*Federal Stafford Loan* This program, sponsored by the federal and state governments, allows students to secure low-cost loans. Eligibility for Stafford Loans is based on demonstrated financial need. Applications are available through your local lending institution.

*Federal Unsubsidized Stafford Loans* This is a new program. It provides access to borrowing for students who do not qualify for need-based assistance. The student is responsible for the interest as it accrues.

*Federal Parent Loans/Supplemental Loans for Students* These programs, sponsored by the federal and state governments, allow parents and some students to secure relatively low-cost loans. Contact your local bank, credit union, or savings and loan institution for more information.

*Alternative Loans (such as MELA, TERI and ALPS)* These alternative, credit-based loan programs provide long-term financing options for qualified families. Additional information about these programs may be obtained from the Office of Student Financial Aid.

*American Indian Scholarship Program* Tuition, mandatory fees, and on-campus room and/or board will be waived for qualified and eligible North American Indians residing in Maine. Eligibility is extended to 1) the person whose name is included on the current census of either the Passamaquoddy or Penobscot Tribes; and 2) the person who has resided in Maine for at least one year and whose name, or the name of at least one of their grandparents, was included on the census of a North American Tribe OR held a band number of the Maliseet or Micmac Tribes with direct blood lineage.

*Presidential Scholarships* The Presidential Scholarship Program recognizes superior academic accomplishment by assisting undergraduates who demonstrate exceptional academic merit and potential.

To be eligible for these prestigious and competitive scholarships, USM students must have earned 15 or more USM (not transfer) credits and a 3.5 or higher cumulative G.P.A. For each semester the scholarship is in effect, the recipient must carry at least 6.0 USM (not transfer) credit hours and maintain a cumulative G.P.A. of 3.5 or higher.

Presidential Scholars receive a tuition and fees credit of \$500 per semester for a maximum total of \$4,000. During the course of the year, scholars may participate in special seminars with the President. For more information, contact the Office of the President.

For more information about financial aid programs, contact the Office of Financial Aid, University of Southern Maine, Corthell Hall, College Avenue, Gorham, Maine 04038 or telephone 207-780-5250.

*Offers of financial aid are conditional upon receipt of funds from all funding sources. The Office of Student Financial Aid reserves the right to revise offers of financial aid at any time during the year based on availability of funds and/or changes in regulation and/or procedures mandated by University, state, or federal authorities.*

# Academic Policies

## *University Degree Requirements*

To be eligible for a baccalaureate degree from the University, a student must meet the following:

- I. minimum proficiency requirements
- II. Core curriculum requirements
- III. school or college major requirements

The Core curriculum requirements apply to all students who entered the University beginning September 1982 and thereafter. (Transfer students should refer to the section, "Transfer Students and the Core Curriculum.")

### *Minimum Proficiency Requirements*

Every baccalaureate degree student who is admitted to the University must produce evidence (no credit granted) of both a minimum writing proficiency and a minimum mathematics proficiency. All newly admitted baccalaureate and associate degree students with an SAT Mathematics score below 450 or an SAT Verbal score below 470 must take Placement Examinations. Transfer and readmitted students with more than 30 earned credits are not required to take the English placement examination. The mathematics placement examination is required of these students unless they have successfully completed at least one semester of collegiate level work in mathematics. (Details of these examinations may be obtained from the Testing and Assessment Center.) Methods of satisfying the Minimum Proficiency Requirements are summarized as follows:

- A. Evidence of Minimum Writing Proficiency **Do One**
  1. Score 470 or above on the verbal section of the Scholastic Assessment Test (SAT)
  2. Pass the English Placement Examination
  3. Successfully complete ENG 009A or its equivalent (Developmental English) (no degree credit)
  4. Successfully complete ESL 402 (English as a Second Language for non-native speakers of English only).
- B. Evidence of Minimum Mathematics Proficiency **Do One**
  1. Score 450 or above on the quantitative section of the Scholastic Assessment Test (SAT)
  2. Score 500 or above on the General Mathematics Test of the College Level Examination Program (CLEP). (This will also satisfy the Core curriculum Quantitative Decision Making requirement.)
  3. Pass the Mathematics Placement Examination
  4. Successfully complete MAT 011B (Intermediate Algebra). (Credit for this course applies only toward associate degrees.)

For information regarding the Core curriculum, including a list of courses approved to satisfy the Core, please refer to the section on the Core curriculum.

## *Course Numbering*

001-009	No Degree Credit
010-099	Associate Degree Program Credit Only
100-199	Introductory Level
200-399	Intermediate Level
400-499	Senior Level, others by permission
500-599	Undergraduate and Graduate Students
600-699	Graduate and Professional Students Only

### *Note:*

1. All courses carrying number 010-099 carry credit and quality points only toward an associate degree.
2. All courses with number 100 or greater carry credit and quality points toward both associate degrees (A.A. and A.S.) and baccalaureate degrees (B.S., B.A., B.F.A. and B.M.).
3. Matriculated baccalaureate students should not register for courses with numbers less than 100 unless meeting minimum proficiency requirements.

4. Associate degree students who wish to change their major to a baccalaureate program should see their prospective dean for a transcript evaluation and complete a Change of Major form. Some programs require a minimum grade point average (GPA) for a major change into a baccalaureate program. Credit and quality points for courses numbered 010-099 will be removed from the academic record when a student changes from an associate degree program to a baccalaureate program.

### ***Registration***

The registration process is conducted by the Registrar, Business Office, and many academic departments. It includes selection of courses, completion of proper forms, and payment of University charges. Newly admitted students are notified by the Enrollment Services Center of their orientation, advising, and registration schedule. The Enrollment Services Center coordinates the new student academic advising process and initiates the registration procedure by approving course schedules prior to processing by the Registrar and Business Office.

Continuing degree students may advance register in priority order, based on class level. Advance registration is conducted near the end of each semester for the following semester. Eligible students who fail to advance register must then wait until the open registration period which immediately precedes each semester. Nonmatriculated (special) students may register only during the open registration period. Degree students must obtain advisor approval prior to registration. No student may register for more than 18 credits in one semester without the permission of his or her advisor and the dean. No registration is complete unless all related financial obligations to the University are satisfied. No registration will be accepted after the second week of classes.

### ***Enrollment Status***

Students are considered to be full-time if they are actively enrolled for 12 or more credits. Half-time enrollment requires an active enrollment of at least 6 credits.

### ***Grading System***

Grades at the University are given in terms of letters, with the option of a plus or minus designation, representing levels of achievement. The basis for determining a grade is the relative extent to which the student has achieved the objectives of the course. The student's work in each course is graded as follows:

- A High honors
- B Honors
- C Satisfactory, successful, and respectable meeting of the course objectives
- D Low-level work, below the average required for graduation for an undergraduate, and a failing grade for a graduate student. In addition, individual departments may limit the number of D grades accepted, as stated in the departmental sections of this catalog. The paragraphs on Minimum Grade and Academic Suspension and Repeated Courses should also be noted.
- F Failure to meet the course objectives
- P Pass; given only for certain courses open to the pass-fail option
- I Incomplete; a temporary grade given when the student, because of extraordinary circumstances, has failed to complete the course requirements. Incomplete grades must be resolved by the end of each subsequent semester; the Registrar shall notify faculty members involved, and their department chair, of students who have carried unresolved incompletes on their transcript for one semester. If the incomplete is not resolved by the instructor, an I grade will be automatically counted as an F in the grade point average and so indicated on the student's permanent record. Under special circumstances, the instructor may request that the dean extend the time limit for a specific period.
- INC Permanent Incomplete. When a temporary incomplete (I) grade is not resolved to a normal letter grade, a permanent incomplete may be assigned in extraordinary circumstances as determined

	by the instructor and the dean. In unusual circumstances where in the faculty member is no longer available, the dean may exercise this function.
L	Stopped attending. The grade of L may be assigned to students who stopped attending a course without officially dropping the course. The grade of L will be computed as an F for purposes of the student's grade point average.
MG	Missing Grade. Occasionally, faculty assign students invalid grades for a course, or fail to submit a grade for a particular student in a course. In these cases, the Registrar's Office will note this act by designating a missing grade, or MG, instead of a grade for the course. Missing Grades must be resolved by the end of each subsequent semester. The Registrar shall notify faculty members involved and their department chair of students who have carried unresolved MGs on their transcript for one semester. If the missing grade is not resolved by the instructor, an MG grade will be automatically counted as an F in the grade point average and so indicated on the student's permanent record. Under special circumstances, the instructor may request that the dean extend the time limit for a specific period.
W	Withdrawal after the first week through the eighth week of a semester. If a student has not officially withdrawn by the end of the eighth week of the course, one of the above regular grades, normally F, will be assigned. The W notation may be obtained after the eighth week under unusual circumstances if so determined by the instructor and the dean. A threat of failure is not considered to be an unusual circumstance. In courses scheduled for fewer than 14 weeks, the W notation will be assigned through the date which coincides with 8/14 of the length of the course.
Y	Satisfactory progress after one semester of a two-semester course; grade and credits to be given upon completion of second semester.
AU	Student attended courses on a noncredit basis.

*Note:* grades of A+ and D- are not valid.

### ***Grade Point Averages***

The academic standing of each student is computed by the Registrar at the end of every semester. The following table represents the rating scale:

A	4.00 grade points per credit hour
A-	3.67 grade points per credit hour
B+	3.33 grade points per credit hour
B	3.00 grade points per credit hour
B-	2.67 grade points per credit hour
C+	2.33 grade points per credit hour
C	2.00 grade points per credit hour
C-	1.67 grade points per credit hour
D+	1.33 grade points per credit hour
D	1.00 grade points per credit hour
F	0.00 grade points per credit hour

To compute the grade point average for a semester, first multiply the grade points earned in each course by the number of credit hours assigned to that course. The resulting product is the number of quality points for that course. Then divide the total number of quality points earned during the semester by the total number of credits carried in that semester. The result is carried out to two decimal places to produce the grade point average for that semester.

To compute the cumulative grade point average, divide the total quality points earned by the total credits attempted in all semesters.

### ***Dean's List***

At the end of each semester, full-time, undergraduate degree students (12 credit hours or more) with grade point averages of 3.2 or above will be placed on the Dean's List. Those students on the list, whose names appear in the Public Directory of the University, will have their names released to the news media. Part-time students who attend both the fall and spring semesters and

complete 12 credit hours are eligible for the Dean's List at the end of the spring semester. The eligibility requirements are the same as for full-time students except that the coursework for the entire year is considered.

Minimum cumulative grade point averages for all undergraduate programs at the University are as follows:

	<i>For Good Standing</i>	<i>For Probationary Standing</i>
<i>Associate Degree Students</i>		
0-15 credit hours	1.60	1.35
16-30 credit hours	1.80	1.60
31-45 credit hours	2.00	1.80
<i>Baccalaureate Degree Students</i>		
0-30 credit hours	1.70	1.50
31-60 credit hours	1.80	1.60
61-90 credit hours	1.90	1.70
91 or more credit hours	2.00	1.80
<i>Non-Matriculated Students</i>		
0-15 credit hours	1.60	1.35
16-30 credit hours	1.80	1.60

Students may be suspended from the University by the dean of the appropriate academic unit. Students who have two consecutive semesters of probationary standing may be suspended at the discretion of the dean. Ordinarily, a student may be suspended by the dean in consultation with the department chair or the student's advisor if the student's semester average falls below 1.0. While under suspension, students may not take coursework, either at the University of Southern Maine or at other institutions, to be applied for credit at the University without permission of the dean of the suspending academic unit. Academic suspensions are imposed for a length of one academic semester. Other standards vary from college to college and are outlined in the letter of suspension directed to the student from the appropriate dean. For details concerning disciplinary suspension and dismissal, consult the Student Conduct Code.

Students with majors or minors in English, history, political science, or psychology in the baccalaureate program of the College of Arts and Sciences must achieve at least six credits with grades of B or better in their major or minor requirements. No grades of D will count toward fulfillment of the major or minor requirements in these programs.

Technology Education majors must maintain a 2.5 cumulative index prior to and throughout the professional sequence, i.e., ATE 380, ATE 381, and ATE 402. No more than one D grade will be accepted in the technical and professional courses required of industrial arts majors.

Matriculated degree candidates are eligible for re-enrollment at the University in accordance with the stipulations outlined in their letter of suspension. Unless noted otherwise in the letter of suspension, the student has the right to re-enroll after one semester.

A student who is a degree candidate is expected to complete and pass the courses for which he or she is registered during a given semester. A student who fails or withdraws from more than two courses during a semester may be placed on academic probation or suspended by the dean of the college, school, or division.

Students placed on academic suspension for a second time are dismissed from the University. In rare cases, students may be readmitted if they can provide evidence of significant academic improvement to the dean of their school or college. Such evidence would normally include high quality academic coursework at another institution. For details of disciplinary dismissal, consult the Student Conduct Code.

### ***Minimum Grade and Academic Suspension***

### ***Re-enrollment after Academic Suspension***

### ***Unsatisfactory Progress***

### ***Academic Dismissal***



## *Non-Matriculated (Special) Students*

Non-matriculated (special) students may register on a space-available basis for undergraduate courses providing the student meets the prerequisites for the course. Non-matriculated students are limited to 30 credits that can be applied to a USM degree. Students who have been denied admission are not permitted to register for courses at USM.

## *Class Membership*

A minimum of 120 credit hours is required for graduation in most baccalaureate-level programs and 60 credit hours in associate-level programs. At least 30 credits should be earned each year. To progress satisfactorily through the University, a full-time student would carry at least 15 credit hours each semester. Permission must be obtained from the advisor and the appropriate dean to carry more than 18 credit hours.

For standing as a sophomore, a student shall have completed at least 19 percent of the hours required for graduation, for junior standing 44 percent, and for senior standing 69 percent.

The required number of credit hours by classes are:

	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>
Four-year programs	23	53	83
Two-year programs	23		

## *Add/Drop*

Once a semester commences, a period of one week is permitted to add or drop courses. Adds require the signature of the instructor, but drops should be completed with the Registrar without a signature. Drops processed during the first week do not have financial penalty. Drops completed after the first week will result in a partial refund in accordance with the refund schedule given in the Financial Information section of this catalog. This procedure enables the student to make the necessary changes in the planned curriculum. A student dropping a course after the first week through the eighth week of classes will receive the grade notation of W. If a student has not officially withdrawn by the end of the eighth week of the course, he or she will be assigned a regular grade, normally F. The W notation may be assigned after the eighth week under unusual circumstances if so determined by the instructor and the dean. All students who register for a course and neither complete the course objectives nor officially withdraw in any one of the procedures described above will be graded F in the course and must assume all financial obligations associated with it.

Students who find that their names are not on the instructor's official list should check immediately with the Registrar's Office to make necessary corrections in the registration records.

## *Pass-Fail Option*

The purpose of the pass-fail grade option is to encourage a student to broaden his or her educational experience with a reduced risk of lowering the overall grade point average. The student's choice is kept confidential and the instructor grades the student in the same manner as the rest of the class. The Registrar will retain the instructor's submitted grade on file. If the grade is A, B, C, or D, it will be converted to a P and any other grade will be handled as described in the Grading System section of this catalog. Please note that F grades will be included in grade point average computation.

Courses taken to satisfy Core curriculum, University Honors Program, major, or minor requirements may not be taken pass-fail. Undergraduate degree candidates may register for a maximum of six hours of pass-fail credits in any one semester, up to a maximum of 18 hours of the total credit hours required for graduation.

Students may exercise the pass-fail option only during a registration period or during the add period each semester. The pass-fail option, once contracted, may be reversed only during the add period.

## *Repeated Courses*

When a student repeats a course and earns a grade of A, B, C, D, F, or P, the initial grade remains on the transcript but only the later grade is used in computing the grade point average or for credit. No course in which one of the above grades has been earned may be repeated more than once without written permission of the dean or director of the appropriate school, college,

or division. This policy does not apply to courses specifically designed to be repeated. Students should complete a Course Condition form each time they repeat a course. Courses intended to repeat University of Southern Maine courses may not be taken at other institutions.

### *Auditing Courses*

Students who register to audit a course receive no credit for the course but will have an audit grade (AU) recorded on their transcripts. Audit courses must be declared at registration.

### *Independent Study*

Junior and senior students may elect independent study in their major for one to six credits. Normally, no more than three credits may be earned in a semester. The student submits an independent study application which includes a detailed description of the proposed program of study. Permission of the instructor and approval by the department chair are required. The approved independent study form is filed with the Registrar during the registration period.

### *Variable Credit Courses*

A student should complete the necessary form during registration at the Registrar's Office. Variable credits may be obtained only for those courses so designated.

### *Permanent Academic Record*

The permanent academic record, including transfer credit evaluation, is maintained by the Office of the Registrar for all students of the University. While grades may be reported unofficially to the student, academic dean, and advisor, the only true and valid documentation of academic work and student status is an official transcript of the academic record, stamped with the Registrar's signature and embossed with the seal of the University. The transcript is available only with the signature of the student and will be released to that student or a designee provided there are no outstanding charges against his or her account with the Business Office. There is a charge of three dollars for each transcript. Other types of transcripts are: Unofficial-Issued Directly to Student, available at no charge to an active student, but limited to one per semester and only after grades are posted for that semester; Placement Transcript, provided for the student's placement folder. This is unofficial, but may be reproduced by the Career Services and Cooperative Education Office for prospective employers at no additional cost.

### *Academic Record Changes*

Considerable care is taken to ensure that course registration and grades entered on a student's permanent record are accurate. Any student who suspects an error has been made should contact the Registrar's Office immediately. Records are assumed to be correct if a student does not report to the Registrar's Office within one year of the completion of the course. At that time, the record becomes permanent and cannot be changed.

### *Coursework at Other Institutions*

Matriculated students at the University are expected to secure written approval from the appropriate dean prior to taking coursework at another institution. Credit approved for courses taken at other institutions will count towards the total degree hours required but will not be computed in the student's cumulative grade point average. For further information, contact the Transfer Affairs Office.

### *Graduation Requirements*

In addition to the minimum requirements of 120 credits for a baccalaureate degree and 60 credits for an associate degree, a candidate must (a) receive passing grades in courses required by the University, the school or college, and the major department; (b) accumulate the number of credit hours required by the school or college in which the student is registered; (c) achieve an accumulative average of not less than 2.00; (d) meet the requirements of the major department; (e) complete an Application for Degree form with the Office of the Registrar at the beginning of the semester of graduation. **Responsibility for successfully completing the requirements of the program resides with the student.**

## **Residence Requirement**

For all baccalaureate degrees at the University, a minimum of 30 credit hours including at least 9 hours in the major field, must be completed while registered in the school or college from which the degree is sought (15 credit hours for associate degree programs). A student may earn no more than 6 of these credit hours at another campus of the University of Maine System. Unless special permission is granted by the dean of the school or college concerned to pursue work elsewhere, the work of the senior or final year must be completed at this University.

## **Graduation with Distinction**

Calculation of the grade point average (GPA) necessary for graduation with distinction will be based upon the student's final 90 credit hours taken either at USM or other institutions. Students who have not completed 90 traditionally graded undergraduate credit hours will not be eligible for graduation with distinction unless an exception for nontraditional credit is granted by the appropriate dean. A preliminary tabulation of the GPA based upon the student's last 75 credit hours (excluding the spring semester grades for May graduates) taken at either USM or other institutions will be made for the purpose of wearing honor cords at Commencement exercises: gold cords (*summa cum laude*), blue cords (*magna cum laude*), white cords (*cum laude*).

In order to qualify for graduation with distinction, students must earn a GPA of (a) at least 3.80 for *summa cum laude*; (b) at least 3.60 and less than 3.80 for *magna cum laude*; and (c) at least 3.40 and less than 3.60 for *cum laude*.

## **Post-Baccalaureate Study for Second Degree**

A second bachelor's degree may not be granted a student until he or she has completed an additional year of college work, as represented by a minimum of 30 semester hours beyond the requirements for the first degree. Such work must be completed in accordance with all other University regulations.

It is the responsibility of the Office of the Dean of the school or college in which the second degree is sought to provide the approval for undertaking the second degree and certifying the completion of all requirements prior to receipt of the second degree.

Students who have already earned one baccalaureate degree and are undertaking work for a second baccalaureate degree are not required to satisfy Core curriculum requirements.

## **Withdrawal from the University**

To withdraw from the University, a student must notify the Registrar's Office in writing. Official withdrawal forms are available from the Registrar's Office and the Enrollment Services Center and require a signature. The date of withdrawal will normally be the postmark date of the withdrawal letter or the date the official form is signed.

If a student withdraws from the University during the first week of the semester, there will be no courses or grades recorded. Students withdrawing after the first week through the eighth week will receive a W grade for each course in which the student was enrolled. Students withdrawing after the eighth week will receive regular grade designations as determined by the instructors. Under unusual circumstances, grades of W can be assigned after the eighth week if approved by both the instructor and the dean.

Students in good standing who have withdrawn from the University and who wish to return at a later date should follow the instructions given under Matriculation Status (Leave of Absence).

Information concerning financial obligations to the University relative to the withdrawal policy will be found in the Financial Information section of this catalog.

## **Matriculation Status (Leave of Absence)**

Degree candidates maintain their matriculation status for ten calendar years from their first semester of attendance as matriculated students. If, for any reason other than dismissal from the University, a student does not register for any length of time during that ten-year period and then resumes registration, no readmission decision will be made. In such cases, the student should simply file a re-entry form with the Transfer Affairs Office. If, however, a student wishes to resume studies as a degree candidate after the ten-year period has elapsed, an admissions decision will be made. Readmission applicants should contact the Transfer Affairs Office for the proper forms.

## ***Catalog Effective for Graduation Requirements***

Freshmen and new transfer students (including transfers from other campuses of the University of Maine System) must satisfy the graduation requirements set out in the catalog in effect for the first semester of their attendance as a matriculated student. Students whose matriculation at the University has expired forfeit the right to pursue a degree according to the provisions of the original catalog and are bound instead by the catalog in effect for the first semester of attendance as a readmitted student.

At the student's choice, a later catalog may be selected for graduation requirements; but a student may not select an earlier catalog. In some cases, academic units have specific time limits for completion of graduation requirements. If so, that time limit will be noted in the appropriate school/college/division section of this catalog.

## ***Change of Major within a School or College***

Permission to change from one major to another is granted by the dean and head of the department in which the student expects to major. A form for the change may be obtained from the Registrar's Office. A change-of-major form must be filed with the Registrar's Office. Requests from undeclared students, and admitted-with-conditions students must be processed by the Enrollment Services Center.

## ***Change of College or School***

Information on the procedure for change of college or school may be obtained from the Registrar's Office or the Enrollment Services Center.

## ***Double Majors***

When a student completes the basic requirement for graduation from one of the schools or colleges and the course requirements for two majors, the student should notify the Registrar, who will record the double major on the student's transcript.

## ***Attendance Policy***

The attendance policy is left to the discretion of the faculty member. Each semester, it is the responsibility of the faculty member to inform the students in each class of the attendance requirements for that class.

## ***Student Academic Integrity Policy***

Everyone associated with the University of Southern Maine is expected to adhere to the principles of academic integrity central to the academic function of the University. Any breach of academic integrity represents a serious offense. Each student has a responsibility to know the standards of conduct and expectations of academic integrity that apply to academic tasks. Violations of student academic integrity include any actions that attempt to promote or enhance the academic standing of any student by dishonest means. Cheating on an examination, stealing the words or ideas of another (i.e., plagiarism), making statements known to be false or misleading, falsifying the results of one's research, improperly using library materials or computer files, or altering or forging academic records are examples of violations of this policy which are contrary to the academic purposes for which the University exists. Acts that violate academic integrity disrupt the educational process and are not acceptable.

Evidence of a violation of the academic integrity policy will normally result in disciplinary action.

## ***Examination Policy***

The examination policy states that it is the responsibility of the faculty member to inform the students in each class of the examination requirements for that class. Usually, two to four preliminary examinations are administered in each course and count heavily toward the final grade. Giving a final exam is not mandatory; however, in classes where they are given, the examinations must be scheduled within the specific final exam period. Take-home exams are also due within the final exam period. By action of the Faculty Senate, no test or examination may be scheduled during the last week of classes.

## ***Absence from a Final Examination***

A student who misses a final examination should immediately contact the instructor to apply for a special examination. Students who miss a final examination and are failing the course at the time will usually be given the grade of F instead of being marked I for the semester grade.

## ***Confidentiality Policy***

The University complies totally with the Family Rights and Privacy Act of 1974 (the Buckley Amendment). For the complete University Confidentiality Policy, consult the Office of the Registrar on either campus.

## ***Clinical Course Requirements***

Many divisions of study at the University require as a condition of graduation the completion of one or more training programs or courses in an outside clinical or professional setting, such as a hospital, clinic, professional office, or public classroom. These outside institutions sometimes impose additional requirements upon students as conditions of participation in their programs. Such requirements might include evidence of a recent medical examination, evidence of health, auto or other insurance, a written agreement to accept and abide by the rules and regulations of that institution, or the execution of an indemnity agreement or release. The University assumes there will be assent to and compliance with such requirements, rules, and regulations by each student upon his or her enrollment in those courses involving outside clinical study.

## ***Student Academic Appeals Policy***

In order to guarantee a fair and equal adjudication of student grievances in the areas of academic affairs, the University of Southern Maine policy is as follows:

1. Academic grievances generally involve such matters as appeal of grades granted by individual members of the faculty, or student appeal of what he or she feels to be unfair or discriminatory treatment by a faculty member. The following steps are to be followed:

a. The student first proceeds through the regular administrative appeal process which involves, in the order stated, student contacts with the following:

- (1) The faculty member involved.
- (2) The department chairperson.
- (3) The dean of the school or college involved.
- (4) The provost and vice president for academic affairs.

b. If, after this administrative appeal process has been completely pursued, the student continues to feel the grievance has not been satisfactorily resolved, he or she may request that the University of Southern Maine Student Senate convene the Student Grievance Committee. The Student Grievance Committee shall report its findings to the president.

c. The final decision on any student academic grievance, after it has progressed through (a) and (b) above rests with the president, after receipt of recommendations from involved parties in (a) and (b) above.

2. It is the prerogative of the president to modify this policy. Modification will normally only take place after any requested change has been reviewed by both Faculty and Student Senates.

## ***Student Administrative Appeals Policy***

In order to guarantee a fair and equal adjudication of student grievances in the areas of administrative decisions, the University of Southern Maine policy is as follows:

1. Administrative decision appeals generally involve all matters affecting a student while at USM other than matters affecting grades. (Grading matters are appealed through the Student Academic Appeals Policy.) The following steps are to be followed:

a. The student first proceeds through the regular administrative appeal process which involves, in the order stated, student contacts with the following:

- (1) The administrator or staff person involved.
- (2) The department superior.
- (3) The department or division director if other than (2) above.
- (4) The appropriate vice president for the area involved.

b. If, after this administrative appeal process has been completely pursued, the student continues to feel the grievance has not been satisfactorily resolved, he or she may request that the University of Southern Maine Student Senate convene the Student Grievance Committee. The Student Grievance Committee shall report its findings to the president.

c. The final decision on any student administrative decision grievance after it has progressed through (a) and (b) above rests with the president, after receipt of recommendations from the involved parties in (a) and (b) above.

2. It is the prerogative of the president to modify this policy. Modification will normally only take place after any requested change has been reviewed by both Faculty and Student Senates.

# Academic Support Services

The University offers students a wide range of academic support services to facilitate and enhance their education. The breadth of these services is designed to accommodate the needs of a diverse student population.

## *Academic Advising*

Following initial advising and registration, students, during their first semester at the University, are assigned for permanent advising to the department of their declared academic major. Students are encouraged to maintain close contact with their department advisor once this assignment has been made.

For certain students, however, the assignment of a permanent department advisor is not appropriate. For such students the following arrangements are made.

*Students who have not declared a major* are provided academic advising by counselors in the Enrollment Services Center. An academic counselor assists the student in the development of educational goals and the selection of an appropriate major. Students should be ready to declare a major before completing 60 credits of coursework at the University.

*Students "admitted with conditions"* are assigned to Enrollment Services Center counselors for academic advising during the period they complete required coursework. Effective in the fall of 1996, this counselor will work with the student to ensure completion of their conditional contract. Upon completion of these requirements, the student is assigned an advisor in his/her major department.

*Non-Matriculated (Special) students* are students who are enrolled in courses at the University on a space available basis and who have not applied for admission. They are advised by the Enrollment Services Center staff.

Students having questions regarding general academic policies and procedures, as well as about other aspects of University programs, are encouraged to contact the Enrollment Services Center in Payson Smith Hall on the Portland campus (780-4040), in Corthell Hall on the Gorham campus (780-5340), and at Lewiston-Auburn College in Lewiston (783-4860).

## *University Library*

The University Library provides a full range of services on both campuses. In Portland, the library is located at the corner of Forest Avenue and Bedford Street, and in Gorham, it is located in Bailey Hall. During regular semesters, these libraries are open seven days a week for a total of 94 hours. The library at Lewiston-Auburn College is open Monday-Friday and some Saturdays. Among the services available are: circulation and reserves, informational and research reference, bibliographic instruction, electronic database searching, and interlibrary borrowing.

The collection represents nearly a million and a half items including: 3,000 current subscriptions to journals, magazines, newspapers, and yearbooks; over 990,000 microforms; 86,000 international, U.S., and state documents; the Smith and the Osher Collections of antique maps, globes, atlases, and geographies representing over 25,000 individual maps; University Archives; and other special collections. These collections are supplemented by the nearly 1 million titles held in the other libraries of the University of Maine System which are presented on the URSUS online catalog, and also by the 25 million titles to which we have access through the OCLC online interlibrary loan network.

The Library staff is dedicated to its primary responsibility of supporting the educational, scholarly, and public service activities of the University community. It also recognizes a responsibility to serve the information needs of the citizens of Maine.

## ***Computing Services***

The Computing Services Department provides varied computer support to students, faculty, and staff at the University. Lab facilities for general student use are located on the Gorham and Portland campuses and at off-campus centers, with access to DOS/Windows and Macintosh computers, software applications, laser printers, and the Internet. A specialized high-end graphic and peripherals resource room is also maintained on the Portland campus. Additional information on lab services is available by calling the Information Line at 780-4611.

The Department installs and supports networks for the University to provide a Local Area Network offering menu access to numerous software applications as well as course-specific programs. Technical diagnosis, support, and repair are also provided for the University.

Software assistance is provided free of charge to the University community, along with specialized software training workshops which are offered throughout the year. Workshop schedules are posted at the labs each semester.

University students, faculty, and staff can purchase personal computers, printers, and peripherals at educationally discounted prices through the Computing Services sales program. The department is located in 144 Luther Bonney Hall on the Portland campus.

## ***Language Laboratory***

The Language Laboratory is available to all students, faculty, and staff for practice and maintenance of language skills, particularly listening and speaking skills. These skills enhance reading and writing abilities by adding auditory memory; learning to communicate with others in a new language opens doors to different and exciting cultures.

The Language Laboratory currently has 24 audio booths available; hundreds of audio tapes (from textbook-based programs to stories, poetry, and music); two video players with a wide variety of videotapes; and a computer terminal with programs for individual practice. News and other television programs are available from satellite and videotape.

## ***Educational Media Services***

Educational Media Services provides audiovisual services that support the academic program of the University. These services include the maintenance and delivery of audiovisual equipment for classroom use on both campuses.

There are film and videotape catalogs available in both offices that are sources for renting instructional materials for classroom use. There is also a collection of nonprint instructional materials available for USM classroom use.

Instructional materials for classroom use may be produced on the Gorham campus. Examples of these materials include overhead transparencies, slides, black and white photographic prints, audio and videotape recording, and duplication and laminations.

## ***Testing and Assessment Center***

The Testing and Assessment Center coordinates the administration of various testing programs, i.e., USM's English and Mathematics placement examination program, MAT (Miller Analogies Test) program, and the National Test program (GRE, GMAT, LSAT, PRAXIS, TOEFL, etc.) Registration information is available at the Center. The Center conducts student assessment studies, assists departments in evaluating programs, develops tests and assessment instruments, and provides technical support to faculty.

Students are encouraged to contact the Testing and Assessment Center for information in G6 Masterton Hall on the Portland campus.

## ***Learning Assistance Program***

Developmental courses provide students with instruction to help them achieve proficiency in writing (ENG 009), in mathematics (MAT 009), and in critical reading skills (RDG 009). In addition to providing developmental courses, the Learning Assistance Program also provides the following support services.

*The Learning Center* The Center offers tutorial services in mathematics, writing in all disciplines, word processing, study skills and self-instructional materials.

*Academic Support for Students with Disabilities* This office provides a wide variety of services for students with varying disabilities who are taking

credit-bearing courses. The services include notetaking, providing test and course accommodations, interpreting, and other appropriate accommodations. Students may be asked to provide documentation. The Office coordinates with the Learning Center, the faculty, and virtually every University department.

Students are advised to contact the Office before each semester to request accommodations so that they can be implemented in a timely manner. The Office is located in 237 Luther Bonney Hall on the Portland campus. Call 780-4706 (voice) or 780-4395 (T.D.D.) to schedule an appointment.

*First Year Alternative Experience (FYAE)* The First Year Alternative Experience provides added support to students who are academically underprepared, yet show promise, as determined by the Office of Admissions. All students who matriculate at USM through the First Year Alternative Experience are admitted with conditions, as described elsewhere in this catalog. FYAE students may participate in all University activities, with the exception of intercollegiate athletics. *This program begins in the fall semester only.*

Features of the First Year Alternative Experience include a distinct schedule of courses in a small class environment, academic counseling and close monitoring of student progress, and tutorial support.

To complete FYAE successfully, students must pass the equivalent of 24 credits (8 courses). This can be accomplished on a full-time basis in two semesters, or on a half-time basis in four semesters. Some developmental coursework taken may not carry credit toward the degree, but will count in the FYAE sequence. For purposes of academic standing, successful progress of FYAE students will be determined by recalculating all grades earned each semester, not the cumulative grade point average.

For more information about the First Year Alternative Experience, contact the FYAE director at 780-4470.

### *Off-Campus Advising*

Students attending a University of Maine System center (Saco-Biddeford, Bath-Brunswick, Sanford) may take advantage of numerous advising and support services provided on site. Each center is staffed by an academic advisor who provides services in cooperation with the appropriate on-campus department. Services include academic advising, placement testing, financial aid assistance, veterans' counseling, registration, student billing, and admissions information. A more in-depth description of off-campus programs and services is available in the Office of Extended Academic Programs section of this catalog.

### *Off-Campus Site Libraries*

All off-campus centers have access to URSUS, the online catalog. The University contracts with the public library in Saco to provide books, journals, reference assistance, and interlibrary loan services to off-campus students and faculty. Off-campus students and faculty are also encouraged to use the library facilities in Portland and Gorham.



# Enrollment Management

The Division of Enrollment Management provides comprehensive enrollment services on the Portland and Gorham campuses and provides students with access to coordinated services of admissions, advising and orientation, registration and financial aid at one location on each campus. In addition, the Division of Enrollment Management is responsible for the special academic sessions and services offered through the Office of Extended Academic Programs.

## *Admissions*

The Office of Admissions attracts and enrolls academically qualified students who are diverse in age, background, experience, and preparation. Offices are located on both campuses and serve as one-stop locations for admissions counseling and advising. The Portland office is located in the Enrollment Services Center in Payson Smith Hall and the Gorham office is in Corthell Hall. For more detailed information about undergraduate admissions, refer to the Undergraduate Admissions section of this catalog.

## *The Enrollment Services Center*

The Enrollment Services Center provides comprehensive academic advising and counseling for students who have undeclared majors, who have been admitted to the University with conditions, and who are non-matriculated or "special." Those students who have declared a major are assigned a faculty advisor in their school or college.

The Enrollment Services Center is also responsible for evaluating prior learning through CLEP and DANTES examinations, military records, portfolios, and other procedures and for providing transfer credit evaluations for all undergraduate international students. The Center is located in Payson Smith Hall on the Portland campus (780-4040).

## *Extended Academic Programs*

The Office of Extended Academic Programs is responsible for the development, coordination and support of all programs affiliated with Summer Session, Winter Session, International Programs, English as a Second Language, and National Student Exchange. For more information about any of these programs, refer to those sections of this catalog or write to: Extended Academic Programs, University of Southern Maine, 96 Falmouth Street, Portland, ME 04103, or call (207) 780-4076.

### *Summer Session*

During the summer, the University offers over 300 credit courses and a number of institutes and programs. The Stonecoast Writers' Conference, courses for music educators, Childhood Psychopathology Institute, and a music camp for talented high school musicians represent just a few of the many special programs available for people of all ages. In addition to the 4,600 students who enroll in academic courses, over 8,000 people attend summer conferences and special institutes in University facilities. Classes are held days and evenings in several schedule formats. The campus offers residence hall accommodations and meals at reasonable rates. Child care is also available for faculty, staff, students, and conference participants.

For further information, write to: Summer Session, University of Southern Maine, 101 Payson Smith, Portland, ME 04103 or telephone (207) 780-4076.

### *Winter Session*

This intensive session is offered during the four weeks between fall and spring semesters. The University typically offers about 30 credit courses and a limited number of special programs. For further information, call (207) 780-4076.

### *Office of International Programs*

The International Programs Office works closely with international students throughout their academic program at USM, including pre-arrival. The staff provides information and support in a wide range of areas including international student orientation, immigration policies and procedures and ongoing adjustment to the campus and community. Through the International Student Association, students can both stay in contact with other international students on campus, and meet students interested in other cultures.

The University offers a limited number of tuition waivers to international students. Information about these waivers is available from the graduate and undergraduate admissions offices.

### *English as a Second Language (ESL)*

The English as a Second Language Program is designed to meet the academic language needs of the rapidly growing population of non-native speakers of English attending the University. This group includes students whose legal residence is not the United States and are here to study either on exchange or as fully matriculated students, as well as immigrants and refugees who have settled in the USA. A variety of levels of ESL courses is offered during the year.

In addition, a noncredit intensive ESL program is offered during the fall and spring semesters as well as in July and August (six-week program). The Intensive English Language Program (IELP) offers 22 hours of instruction per week and is primarily geared toward adult students who wish to improve their English either for their jobs or for entry into a college or university.

More information can be obtained by contacting Bart Weyand at 101 Payson Smith, call 780-4419.

### *National Student Exchange*

The National Student Exchange offers students the opportunity to live and learn in another part of the country. Students are able to spend up to an academic year at one of 122 schools, while paying in-state tuition rates. Schools involved in the program are located from the East to West coast, from the Canadian to the Mexican border, including three U.S. territories. Each year many USM students take part in the exchange, while students from other states exchange to USM. For more information, call 780-4765.

### *Off-Campus Centers*

The Office of Extended Academic Programs offers courses at three off-campus centers, Saco-Biddeford, Bath-Brunswick, and Sanford. Each center offers geographical convenience and personal attention. A comprehensive array of services, which includes registration for and information about all campus programs, as well as admissions, financial, and academic advising, is offered. For more information about programs, financial aid, or other academic advising services contact: Saco-Biddeford Center, Mill 2, Saco Island, Saco, Maine 04072, (207) 780-4492 or 282-4111, or Sanford Center, 72 Pleasant Street, Springvale, Maine 04083, (207) 324-6012, or the Bath-Brunswick Center, 275 Bath Road, Brunswick, Maine 04011, (207) 725-8620.

### *International Study Opportunities*

The University offers a variety of opportunities for students to spend a semester or full year at another university while enrolled in a degree program at USM.

International study is facilitated through the Office of International Programs, which maintains links to and information on programs offered throughout the world. Established exchange programs to England, Ireland, Latvia, France, Austria, Ukraine, Russia, the Netherlands, Canada and Japan are offered each year. Scholarships for study and travel abroad are available. Students interested in study abroad opportunities should also contact the representative in their school or college, and their academic advisor. Such discussions should begin at least one year before the intended departure. For information regarding International Study opportunities, and other services of the office, contact the Office of International Programs at 780-4959, 101 Payson Smith Hall, Portland.

### *Financial Aid*

The Office of Student Financial Aid administers, coordinates, and recommends programs of financial aid to enable students who lack adequate financial resources to attend USM. Offices are located on the Gorham campus in Corthell Hall (780-5250) and in Payson Smith Hall on the Portland campus. For more detailed information about the application process, the funds available and the priority filing dates and deadlines, refer to the Student Financial Aid section of this catalog.

### *Registrar*

The Office of the Registrar serves as the legal custodian of University academic records and is responsible for the appropriate recording, production, and disbursement of those records. The Office is also responsible for such critical functions as academic honors, sanctions and dismissals, and veterans affairs. The Office of the Registrar is in Portland in the Enrollment Services Center in Payson Smith Hall (780-4842) and in Gorham in Corthell Hall (780-5230). For information about National Student Exchange opportunities, call 780-4765. For information about veterans affairs including certification, liaison with the Veteran's Administration, and academics, call 780-4043.

# Student Development

The Division of Student Development provides programs and services to assist students in the out-of-classroom aspects of the educational experience. These activities, ranging from intercollegiate sports to resume preparation, complement the academic process and expand the university experience for all students. These programs and services are described in this section.

## *Multicultural Affairs*

The Office of Multicultural Affairs supports and assists University efforts in fostering a diverse educational community. Primary activities include coordinating institutional program support; collaborating on multicultural initiatives; and identifying and advancing issues central to the personal and academic needs of students. The Office also assists with student retention efforts; consults with academic offices regarding such matters as curriculum development, diversity plans, faculty recruitment, and instructional support; advises students, staff, and faculty; and sponsors diversity awareness opportunities.

## *Intercollegiate Athletics*

Athletics is an important and exciting part of the student life at the University of Southern Maine. Whether you are a participant or a spectator, USM teams provide plenty of thrills and action for everyone involved. Few institutions can match the success of the Huskies' nationally recognized non-scholarship athletic program.

With a first-rate coaching staff, USM is committed to an athletic program that is widely considered one of the finest in the nation competing at the NCAA Division III level.

Student-athletes grow as individuals by experiencing competitive opportunities provided by the institution. Through participation in intercollegiate athletics and interaction with a nationally recognized coaching staff, student-athletes are challenged physically, mentally, and emotionally. The athletic arena is a classroom used to teach character, leadership, self-discipline, self-respect, commitment, work ethic, sportsmanship, respect for teammates, opponents, diversity and difference, and the importance of sacrifice, teamwork and cooperation. Student-athletes are held to high standards, are expected to succeed in academics and athletics and are held accountable for their actions.

USM offers 14 intercollegiate sports; 7 for men and 7 for women. The fall sports lineup includes: men's cross country, women's cross country, field hockey, men's soccer, and women's soccer. During the winter season, USM offers 3 sports: men's basketball, women's basketball and ice hockey. In the spring, student-athletes can choose to participate in baseball, softball, tennis, golf, men's and women's track.

USM athletic teams compete and hold membership in the National Collegiate Athletic Association, the Eastern College Athletic Conference, the Little East Conference and the Maine Association of Intercollegiate Athletics for Women. For more information, please call 780-5430.

## *Career Services and Cooperative Education*

The Career Services and Cooperative Education Centers provide comprehensive career assistance for all matriculated students. Students are encouraged to visit the Centers early in their academic career to begin preparing for the future. They provide individual counseling, interest testing, a part-time job service, a computerized career exploration service, and workshops to help students design résumés and learn how to interview with employers. They maintain placement files to help graduating students manage their references, and they invite employers to interview students on campus. They are a participating institution in the Maine Recruiting Consortium—a job fair program for graduating seniors that draws employers from across the Northeast.

The new Cooperative Education Program helps place students in short-term positions with career-related businesses. In most cases, students who are eligible to apply for Cooperative Education placements receive academic credit for the learning experience involved, as well as a salary from the employer. The office also maintains lists of available unpaid internship opportunities.

The Centers are located on the Gorham campus in Upton Hall and on the Portland campus in Payson Smith Hall.

### ***Counseling Center***

Short term counseling services and referral are available to all students at the University of Southern Maine. At times, students may have concerns and questions that interfere with their academic or personal success. Typically, students seek out counseling services for these and other reasons: developing confidence in self; coping with depression, anxiety, or stress; managing interpersonal conflicts; developing satisfying relationships; understanding and coping with family dynamics; managing multiple responsibilities; or handling a personal crisis. Professional staff counselors and psychologists are available for individual and group counseling, emergency assistance, and referral services for students having more severe personal problems. The office is located in Payson Smith Hall (780-4050).

### ***Police and Safety***

Police and Safety is responsible for keeping the peace, preventing crime, and delivering a variety of services including security and crowd control, crime investigation, 24-hour police coverage, management of parking and transportation, escort services and educational programs. The office is located on the Gorham campus in Upton Hall, Portland Hall, and in the former Steego Building at the corner of Bedford and Winslow Streets on the Portland campus (780-5211 or emergency number, 780-5000).

### ***Student Health Services***

The Student Health Service is responsible for facilitating a healthy and safe environment for students to enjoy during their time on campus. SHS provides health care to students, coordinates campus-wide health promotion/disease prevention activities, and responds to communicable disease outbreaks on campus.

A team of professional nurses, nurse practitioners, and physicians are available to provide health care to students in two clinical sites (Upton Hall in Gorham and Sullivan Gym in Portland). Both sites are open Monday through Friday, but hours change during school vacations and summer. Appointments are preferred for your convenience. The professional health educator is available for consultation and information regarding health promotion activities at 780-5164. For further information or to make an appointment call 780-4211 in Portland or 780-5411 in Gorham.

### ***Commuter Student Services***

The Office of Commuter Student Services offers programs, services, and general support to all commuter students. This office advises two student groups: Portland Events Board, that offers a variety of musical events, lectures, family social events, and other activities, and the Commuter Student Board, comprised of commuter students of all ages and interests, that helps commuter students feel comfortable on campus and provides a voice for commuter issues that arise. The Office is also responsible for the management and coordination of services within the Portland Campus Center.

The Portland Campus Center is the "living room" of the campus, where students can relax, study, grab a bite to eat, and interact with fellow students, faculty, and staff. There are study areas, a photocopying center, campus events calendar, information/resource desk, clothing and jewelry vendors, the Bookstore, Area Art Gallery, Student Legal Services, the Dining Center, and the Office of Commuter Student Services.

The Commuter Student Lounge, located in the Dining Center, provides a place for students to eat, watch TV, use the local phone, leave messages on the message board, play pool, or form a study group. For more information call 780-4090.

### ***Gorham Student Life***

The Department of Gorham Student Life fosters community development by working with residence hall, Greek, and community students. The Department provides students with essential services such as residence and dining facilities, student group advising, and program delivery. Some of the areas which comprise Gorham Student Life are:

### *Dining Services*

Dining facilities exist at four separate campus locations. In Gorham, the main University dining facility accommodates 650 students and offers a regular board meal plan during the academic year. A snack bar, in the newly renovated Student Center in Gorham, offers short-order and deli fare. On the Portland campus, Portland Hall offers regular board meal service and the Campus Center Cafeteria provides meals a la carte. Catering for special functions is available at all locations. Meal plans are available for both resident and commuter students and can be tailored to meet individual needs. For more information, call Student Life at 780-5240.

### *Greek Life*

Greek Life offers students the opportunity to participate in an alternative community emphasizing leadership, community service, academic achievement, and self-governance. Seven social fraternities and sororities are affiliated with USM. Four of the fraternities maintain off-campus houses, and other organizations have developed on-campus housing programs coordinated by the Department of Student Life. For more information, call 780-5240.

### *Honor Societies and University Scholarships and Awards*

The University is currently affiliated with 11 national honor societies, some tied to academic majors such as history and foreign languages, and some, like Phi Kappa Phi, recognize overall academic achievement. For more information, call 780-4090.

The University has developed a Scholarships and Awards program to recognize outstanding students and each academic year makes applications for scholarships and awards available in December. These honors are given to students at the Recognition Day Ceremony in late spring. For more information, call 780-4090.

### *Intramural and Recreation Programs*

USM offers a variety of recreational activities and intramural athletic opportunities. With gymnasiums on both campuses, students can take part in organized programs or work out on their own. Both gyms have weight training facilities and offer aerobic programs. Racquetball and squash courts are available at the Portland gym. Athletic equipment, including cross-country skis, is available for student use at the Gorham gym. Team competition is held in basketball, volleyball, softball, flag football, soccer and wallyball. Individual competition is offered in tennis, golf, racquetball, biking and running. For more information, call 780-5132.

### *Off-Campus Housing*

The University maintains lists of available rooms and apartments to assist students who wish to live off-campus. The lists are available at Resident Student Services, 100 Upton Hall, on the Gorham campus and the Office of Commuter Student Services, Campus Center, on the Portland campus.

### *Child Care Services*

University Child Care Services, though part of the Division of Human Resources, complements the mission of Student Development by serving over 400 children of students, faculty, staff, and alumni. Programs are provided for children from infancy to teens, in three facilities#Portland campus, downtown Portland Center, and Gorham and include: full-day child care (7:30 a.m. - 5:30 p.m.), after and before school and kindergarten care in Gorham, flex-care (child care services on a block basis), infant, toddler, and pre-school care, summer and school vacation camps. Student scholarships, provided by the Student Senate and the University, are available for eligible students. For more information, call 780-4125.

### *Residence Halls*

The University provides student housing for approximately 1,100 students in 7 residential units on the Gorham campus and in the city of Portland. Accommodations are coeducational and provide a variety of living options for students. The residence halls have their own governance organizations which promote community development and offer educational and recreational hall programs. For more information, call 780-5240.

## ***Student Government and Organizations***

A 21-member Student Senate, elected by undergraduates, is the principal governing body for students. A student activity fee, collected from each student, is used by the Senate to pay for undergraduate activities.

Students interested in journalism, literature or broadcasting may join the staff of the University *Free Press*, a weekly student newspaper; *The Review*, a literary magazine; or WMPG-FM, the student radio station. Students interested in TV production can become involved in USM's own cable TV station, G-TV, located on the Gorham campus.

Students are encouraged to take advantage of cultural activities, speakers, and special events available free or at minimal cost. Regular performances are given by student groups such as the award-winning Russell Square Players, the University Chorale and the Chamber Orchestra. In Portland, the Southworth Planetarium and the Area Gallery in the Campus Center, and in Gorham, the Art Gallery and the Museum of Cultural Change, offer programs year round. In addition, many student organizations bring noted artists, performers, and speakers to USM.

## ***Student Judicial Affairs***

While at the University, students are expected to conduct their affairs with proper regard for the rights of others and of the University. All members of the University community share a responsibility to maintain an environment where actions are guided by respect, integrity, and reason. When standards of conduct are violated, the University relies upon the Student Conduct Code. It is the responsibility of the Office of Student Judicial Affairs to protect the campus community from disruption and harm by offering a program of educational discipline and by enforcing the Student Conduct Code. If students violate a state or federal law or a University regulation, they may be subject to state, federal, or University disciplinary action. In the enforcement of the Student Conduct Code the University functions in an administrative manner. For a complete copy of the Student Conduct Code, call 780-5242.

## ***The Women's Center***

The Women's Center provides advocacy, support, and programming on issues of gender equity. Among the programs are a Career Mentors Program, which offers undergraduate women opportunities to have as mentors women employed in their prospective career fields; a Middle School Mentors Program which places undergraduate women as mentors to girls at middle schools in Portland and Gorham; and a Career Horizons Program, which researches the enrollment of undergraduate women across the University, spots any areas of under-representation, and identifies any barriers to women's full participation in the life of the University.

## ***Important Campus Policies***

In addition to the Student Conduct Code, USM has a number of important University policies which govern campus life. These policies and many others can be found in The USM Navigator, the student handbook, which is available to all new students. In order to review these policies in their entirety, please consult the student handbook or the appropriate department listed.

### ***AIDS Policy***

The USM AIDS (Acquired Immune Deficiency Syndrome) policy has been established to protect the rights of individuals infected with HIV (Human Immune Deficiency Virus) and the health and safety of all others at the institution. USM will not discriminate in any manner against any person who is infected with HIV, including admissions, facilities access, hiring, housing, promotion, tenure or termination. USM will not require HIV testing for either its students or employees and information about suspected or known HIV infection will be kept confidential. For more information or advice regarding this policy, contact the USM AIDS Task Force at 780-4211 or 780-5411 or 780-5383.

### ***Alcohol and Substance Abuse Policy***

The University of Southern Maine views alcohol and substance abuse as a serious problem both nationally and on-campus and wishes to do everything possible to address it. In compliance with the Drug Free Schools and Communities Act and the Drug Free Workplace Act passed by Congress, the

University publishes annually a booklet which informs all students and employees of the University's substance abuse policy, sanctions for violation of the policy, state and federal alcohol and drug laws, offenses and sanctions. Below is a summary of USM's alcohol and substance abuse policy.

The possession, use, or distribution of illegal drugs, as defined by federal, state, and local statutes, is prohibited at any time on University property. Students who possess, use, or distribute illegal drugs are liable for public law enforcement sanctions and University disciplinary action. Use of alcoholic beverages on University property shall be in compliance with state laws and campus regulations and procedures. Violation of such laws, regulations and procedures may result in disciplinary action and, where applicable, criminal proceedings.

Students with substance abuse problems may take advantage of diagnostic, referral, counseling and prevention services available through the Substance Abuse Prevention Program or the USM Counseling Center. For more information, call 780-5164.

### *Crime Prevention and Safety*

The University of Southern Maine is committed to safety and crime prevention on campus. Information on campus crime statistics, crime policies and procedures and crime prevention programs is provided each year to the campus community in compliance with the Crime Awareness and Campus Security Act of 1990.

For emergencies, property loss, lost and found or to report suspicious persons or maintenance/safety problems, call Police and Safety at 780-5211, or emergency 780-5000.

For property loss and safety concerns in the residence halls, you can also contact your Resident Assistant or Area Director or Resident Student Services at 780-5240.

For sexual assault or physical or domestic violence, you may call Police and Safety (24 hours a day) at 780-5211 or emergency 780-5000. You can call your Resident Assistant or Area Director, 780-5240 (if you live in the residence halls), the USM Counseling Center, 780-4050, or the Rape Crisis Center, 774-3613.

### *Sexual Harassment Policy*

Sexual harassment of either employees or students is a violation of federal and state laws. It is the policy of the University of Maine System that no member of the University community may sexually harass another. In accordance with its policy of complying with non-discrimination laws, the University of Maine System will regard freedom from sexual harassment as an individual employee and student right which will be safeguarded as a matter of policy. Any employee or student will be subject to disciplinary action for violation of this policy. Sexual advances, requests for sexual favors, and other verbal or physical contact of a sexual nature constitute sexual harassment when: 1.) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or education, or 2.) submission to or rejection of such contact by an individual is used as the basis for academic or employment decisions affecting the individual, or 3.) such conduct has the purpose or effect of interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive employment, educational, or living environment.

Consenting relationships may constitute sexual harassment under this policy. When a professional power differential exists between members of the University of Maine System and a romantic or sexual relationship develops, there is a potential for abuse of that power, even in relationships of apparent mutual consent. A faculty or staff member should not engage in such relationships. Further, the University prohibits the abuse of power in romantic or sexual relationships.

To assure that power is not abused and to maintain an environment free of sexual harassment, a faculty or staff member must eliminate any current or potential conflict of interest by removing himself or herself from decisions affecting the other person in the relationship. Decisions affecting the other per-

son include grading, evaluating, supervising, or otherwise influencing that person's education, employment, housing, or participation in athletics or any other University activity. It is the policy of the System to ensure fair and impartial investigations that will protect the rights of persons filing sexual harassment complaints, the persons complained against, and the System as a whole.

For a complete copy of the policy, additional information, or to express concern about sexual harassment, call 780-5094 (TDD 780-5646), or to the Office of Civil Rights, U.S. Department of Education, Region 1, John W. McCormack, Post Office and Courthouse Building, Boston, MA 02109, 617-223-9692.

### *Sexual Assault Policy*

Sexual assault, including rape by an acquaintance or stranger, is prohibited by University policy and State of Maine law. The University of Southern Maine does not tolerate sexual assault in any form. Violators of this policy will be subject to disciplinary measures, up to and including dismissal.

For a complete copy of the University of Southern Maine Sexual Assault Policy, you may contact the Office of Student Judicial Affairs at 780-5242.

It is important to tell someone when you have been sexually assaulted, and to tell someone you can trust. Campus resources include Student Affairs staff and other University faculty and staff, academic advisers, Resident Assistants (RAs), Area Directors (ADs), Greek Advisers, and athletic coaches. Off-campus community resources include your local hospital emergency rooms, rape crisis centers, and local police departments.

### *Available Resources*

#### *USM Student Health Services*

*Services:* Medical assessment and follow-up, testing for sexually transmitted diseases and pregnancy. In Portland (Portland Gym): 780-4211 or in Gorham (Upton Hall): 780-5411. Consultation with health educator: 780-5164.

#### *USM Counseling Center*

*Services:* Counseling for student-victims and students related to victims. In Portland (106 Payson Smith): 780-4050.

#### *USM Police and Safety*

*Services:* 24-hour security and policing function. In Portland (former Steego Bldg., Bedford and Winslow Streets): 780-5211 or in Gorham (Basement, Upton Hall): 780-5211. **Emergency: 780-5000.**

#### *Office of Student Judicial Affairs*

*Services:* Consultation and filing complaints with student conduct code. In Gorham (125 Upton Hall): 780-5242.

*24-hour Community Crisis Centers:* May include medical accompaniment to hospital emergency rooms for rape kit/forensic exams, anonymous hot-line counseling and referral services, legal advice and courtroom accompaniment if charges are pressed.

Rape Crisis Center (Cumberland and York County) . . . . . 774-3613  
Bath-Brunswick Rape Crisis Hotline . . . . . 1-800-822-5999  
Lewiston-Auburn Sexual Assault Crisis Center . . . . . 795-2211  
Augusta Area Rape Crisis Center . . . . . 626-0660



# The Core Curriculum

*Director:* Wayne Cowart, 246 Luther Bonney Hall, Portland

*Core Council:* Hayes, Hitchcock, Irish, Morrill, Normandeau, Rootes, Smith

## **Rationale**

The Core curriculum at USM has been designed to provide undergraduates with a general education, a core of skills, and knowledge that every individual needs either to excel in professional life or to build a rich and fulfilling personal life. It is vital that students view the Core as a set of goals, not a checklist of courses. In the wider world, competency counts. The Core is designed to foster those competencies that, by wide agreement, matter the most. It can only succeed, however, where students make the goals of the Core their own.

## **Goals and Structure**

- A. The *basic competence* component of the Core aims to develop essential skills in writing, using quantitative information, and critical thinking. These skills are fundamental tools that are relevant to all other courses that students take. Students should complete all courses relevant to the basic competence component of the Core as early as possible after beginning their studies at USM. Whether a first-year student or a transfer, every student should strive to complete all Core competency requirements by the end of the student's first year at USM.
- B. The *methods of inquiry/ways of knowing* component of the Core aims to develop a broad appreciation of the many ways of looking at and understanding the world that humans have found useful in the current era and in the past. In pursuit of this overriding goal, this component of the Core introduces the student to a wide range of different academic disciplines: their subject matter, their methods, and their broader purposes. This part of the Core curriculum is subdivided into four areas: fine arts, humanities, social sciences, and natural sciences.
  - (1) *Fine arts* courses seek to explore the aesthetic dimension through personal performance and through historical study of the arts.
  - (2) Through the *humanities*, the Core curriculum seeks to foster knowledge of literature and of the diversity of our historical and cultural heritage. What links these studies together is their focus on the meaning and values of human acts. Under this two-fold division of the humanities, the student develops the critical and aesthetic skills needed to interpret literature and studies the methods through which we attempt to make sense of the past or understand alien cultures.
  - (3) The *social sciences* aim to acquaint the student with the methods and theories used to study the social, political, or economic behavior of groups or individuals.
  - (4) Through lecture-laboratory courses, the *natural science* offerings seek to develop an understanding of scientific methods, theories, and the contribution of a particular science, and of natural science in general, to our understanding of the world.
- C. The *interdisciplinary* component seeks to counteract the fragmentation that can result from compartmentalizing knowledge in academic specialties. These courses aim to show the student that the assumptions and methods of different disciplines may be conjoined in the study of a single issue or topic to achieve insight and understanding that is not merely the sum of the component disciplines. Interdisciplinary courses are developed under the guidance of the Core Council, a body with representation from all the schools and colleges. These courses are introduced and discontinued on a regular and periodic schedule.

## **Requirements**

Most Core requirements are met by passing one or more courses of specific types. Each course that can be used to satisfy one of the Core requirements has a letter in the series (C-K) added to its name (e.g., ENG 100C, MAT 105D). The letters associated with various requirements are indicated below.

## Basic Competence

In support of the Basic Competence goals of the Core, students are required to take courses (or otherwise demonstrate competency) in each of three areas: (1) English composition, (2) quantitative decision making, and (3) skills of analysis.

The *English Composition* (C) requirement can be met in any one of four ways:

- 1) Score 59 or above on the TSWE (no credit)
- 2) Score 500 or above on the CLEP General or English Composition Test (no credit)
- 3) Satisfy composition standards in ENG 100C or ENG 101C by the second week of the term (no credit)
- 4) Successfully complete ENG 100C or ENG 101C or ESL 100C (3 credits)

*Note:* Students must meet USM's writing proficiency requirement before registering for an English composition course (such as ENG 100C or ENG 101C). See the Academic Policies section of the catalog for more information.

The *Quantitative Decision Making* (D) requirement can be met in either of two ways:

- 1) Pass a locally administered examination (no credit)
- 2) Successfully complete an approved mathematics or statistics "D" course (e.g., MAT 105D, MAT 110D, MAT 120D, PSY 201D, SOC 207D)

*Note:* a) Students must meet USM's mathematics proficiency requirement before registering for a Quantitative Decision Making course. b) Students in departments that do not specify mathematics requirements should consult their advisors or the Enrollment Services Center for guidance in selecting a course in this area.

The *Skills of Analysis* (E) requirement is met by passing an approved "E" course (e.g., various 100-level PHI courses, or LIN 112E, SOC 210E, etc.) (3 credits)

*Note:* Any 100-level PHI course can be repeated by taking any other 100-level PHI course in accordance with the University Repeat Course Policy.

## Methods of Inquiry/Ways of Knowing

The *Fine Arts* requirement is satisfied by successfully completing one course in each of the following two areas. The courses must be selected from different departments.

- 1) An approved (F) performance-centered arts course (3 credits)
- 2) An approved (G) history-centered arts course (3 credits)

The *Humanities* requirement is satisfied by successfully completing one course in each of the following two areas. The courses must have different prefixes.

- 1) An approved (H) literature course (3 credits)
- 2) An approved (I) other times/other cultures course (3 credits)

The *Social Science* requirement is satisfied by successfully completing two approved (J) social science courses. The courses must be selected from different departments. (6 credits)

The *Natural Sciences* requirement is satisfied by successfully completing one approved (K) natural science course and the laboratory course associated with that "K" course. (4 credits)

*Note:* Natural science majors do not have to take "K" courses outside their majors to fulfill the natural science component.

## Interdisciplinary (3 credits)

The *Interdisciplinary* requirement is satisfied by successfully completing one course with a COR prefix. (3 credits)

*Note:* a) A prerequisite for all COR courses is the successful completion of both the basic competence English composition (C) and the skills of analysis (E) requirements. b) Any course with a COR prefix can be repeated by taking any other course with a COR prefix in accordance with the University Repeat Course Policy.

*Note:* Core curriculum requirements differ slightly for engineering majors. See the Department of Engineering section of this catalog for specific Core curriculum requirements for engineering majors.

## ***Core Curriculum Regulations***

1. The student has primary responsibility for ensuring that she or he completes the minimum proficiency requirements and the Core curriculum requirements. Undeclared majors should seek advice from the Enrollment Services Center. Effective in the fall of 1996, students admitted with conditions will be expected to complete their minimum proficiency requirements as stated in their conditional contract. Declared majors should consult their school, college, or department advisors.
2. There can be no more than one overlap between the courses a student takes to fulfill the Core curriculum requirements and the courses that count toward the student's major. "Overlap" is defined in terms of each course's three-letter prefix (e.g., ENG, SOC, WST); that is, a student may take only one course toward the Core that has the prefix of the student's major. (The overlapping Core course may itself also count toward the major or it may just share a prefix with the major.)
3. The student should satisfy the basic competence requirements before the completion of 60 credits.
4. The student should successfully complete the COR interdisciplinary course before the completion of 90 credits.
5. Courses taken to satisfy the Core curriculum requirements may not be taken on a pass-fail basis.
6. A COR interdisciplinary course may be used to satisfy the Methods of Inquiry/Ways of Knowing requirement of the Core curriculum.

## ***Transfer Students and the Core Curriculum***

All transfer students in a baccalaureate degree program are expected to meet the Core curriculum requirements as outlined above. The following guidelines should be noted:

### **Basic Competence**

Transfer students should complete the Basic Competence requirements as early as possible after admission to the University.

The *English Composition requirement* can normally be satisfied by transfer credit for an English composition course. If no such course is available for transfer credit, the student should refer to the other options noted under the Core curriculum requirements.

The *Quantitative Decision Making requirement* can normally be satisfied by transfer credit for an equivalent mathematics or statistics course. If no such course is available for transfer credit, the student should refer to the other options noted under the Core curriculum requirements.

The *Skills of Analysis/Philosophy requirement* can normally be satisfied by transfer credit for a course that deals with logic, reasoning, or analytical thinking. If no such course is available for transfer credit, the student should refer to the other options noted under the Core curriculum requirements.

### **Methods of Inquiry/Ways of Knowing**

These requirements can normally be satisfied by transfer credit for courses in each of the areas of the Methods of Inquiry/Ways of Knowing component. That is: one performance-centered art course, one history-centered art course, one literature course, one other times and/or other cultures course, two social science courses from different departments, and one natural science course with a lab. Any CLEP examination that satisfies coursework in an area of the Core curriculum will satisfy Core requirements for that area. When a specific requirement cannot be satisfied by transfer credit, upon initial transfer evaluation at matriculation, the student is expected to take the appropriate course(s) from the list below.

### **Interdisciplinary**

All transfer students granted less than 60 credits at the time of admission to the University are required to take the COR 100 level interdisciplinary course. Students granted 60 or more transfer credits are exempt from this Core curriculum requirement.

***Courses Approved  
to Satisfy Core  
Curriculum  
Requirements***

In course registration schedules and other publications, courses approved to satisfy Core curriculum requirements are flagged by a letter following the course number. Additional Core-designated courses may appear in the course schedule or on-line schedule for any given semester. Please consult with your advisor regarding the availability of these additional courses.

**Basic Competence**

*English Composition*

ENG	100C	College Writing
ENG	101C	Independent Writing
ESL	100C	College Writing
HUM	100C	Composition

*Quantitative Decision Making*

COS	101D	Quantitative Decision Making Using Computers
MAT	105D	Mathematics for Quantitative Decision Making
MAT	109D	Linear Systems
MAT	110D	Business Calculus
MAT	120D	Introduction to Statistics
MAT	131D	Number Systems for Elementary Teachers
MAT	140D	Pre-Calculus Mathematics
MAT	152D	Calculus A

MOS/

SBS	328D	Statistics
PSY	201D	Statistics in Psychology
SOC	307D	Statistical Methods for Social Research

*Skills of Analysis/Philosophy*

COS	120E	Deductive Logic
ENG	110E	Straight and Crooked Thinking
HTY	377E	Chinese Thought
LAC	101E	Critical Thinking
LIN	112E	Analyzing Language
MOS/		
SBS	370E	Ethics and the Organization
PHI	101E	Introduction to Philosophy: Free Will and Determinism
PHI	102E	Introduction to Philosophy: Quest for Certainty
PHI	103E	Introduction to Philosophy: Human Alienation
PHI	105E	Introduction to Philosophy: Philosophy through Its History
PHI	106E	Introduction to Philosophy: Why Philosophize?
PHI	107E	Introduction to Philosophy: World Philosophy
PHI	109E	Introduction to Philosophy: Law, Politics and Society
PHI	110E	Introduction to Philosophy: Feminist Perspectives
PHI	111E	Introduction to Philosophy: Philosophical Reading (and Writing)
SOC	210E	Critical Thinking About Social Issues

**Methods of Inquiry/Ways of Knowing**

*Fine Arts*

Performance-centered arts

ART	141F	Fundamental Design I (2-D)
ART	151F	Fundamental Drawing I
COR	119F	The Illuminated Autobiography
COR	138F	Life Imitates Art: Understanding Human Behavior
ENG	201F	Creative Writing
ENG	300F	Fiction Writing
ENG	301F	Poetry Writing
ENG	302F	Fiction Workshop
ENG	303F	Poetry Workshop
HUM	105F	Basic Photography
MUS	110F	Fundamentals of Music
MUS	130F	Music Theory I
MUP	101F	Applied Music

MUP	102F	Applied Music
MUP	201F	Applied Music
MUP	202F	Applied Music
MUS	334F	Electronic Music I
MUS	400F	Chamber Orchestra
MUS	401F	The University Chorale
MUS	402F	University Concert Band
MUS	405F	The Chamber Singers
MUS	408F	Wind Ensemble
THE	102F	Acting: Performance
THE	103F	Contemporary Dance I
THE	134F	Production Management
THE	135F/ 136F	Stagecraft & Lab
THE	170F	Public Speaking
THE	203F	Contemporary Dance II
THE	270F	Oral Interpretation
History-centered arts		
ART	101G	Approaches to Art
ARH	111G	Art History: Prehistoric to Medieval
ARH	112G	Art History: Renaissance to Modern
ARH	210G	Art History: Cross-Cultural Perspectives
ARH	211G	Gender Identity and Modern Art
MUS	100G	Music Appreciation and History
MUS	102G	Music of the Portland Symphony
MUS	103G	Introduction to Jazz
MUS	120G	History of Music I
MUS	121G	History of Music II
MUS	202G	Music in America
MUS	203G	Music in the 20th Century
MUS	205G	Chamber Music Literature
MUS	220G	History of Music III
MUS	221G	History of Music IV
THE	101G	Introduction to Drama
THE	231G	Costuming I
THE	353G	Dramatic Literature and Theatre History III: Romantic to World War II
<i>Humanities</i>		
Literature		
CLA	283H	The Epic Hero in Ancient Literature
CLA	284H	The Tragic Hero in Ancient Literature
COR	129H	Plato's Myth of the Cave: The Problem of Knowledge
COR	213H	Metaphor & Myth in Science and Literature
COR	223H	Life & Literature after Darwin
COR	318H	Photography and Poetry: Two Ways of Speaking
ENG	120H	Introduction to Literature
FRE	283H	Contemporary French Thinkers (in English translation)
FRE	362H	French Poetry
FRE	363H	The French Theatre
GER	281H	The German Novelle (in English translation)
GER	351H	Introduction to German Literature I
GER	352H	Introduction to German Literature II
HUM	223H	Life & Literature after Darwin
HUM	318H	Photography and Poetry: Two Ways of Speaking
SPA	281H	Masterpieces of Spanish American and Brazilian Literature (in English translation)
SPA	351H	Readings in Contemporary Spanish Literature
SPA	352H	Readings in Modern Latin American Literature
RUS	281H	Russian Literature in Translation
THE	150H	Play Analysis
Other Times/Other Cultures		
ANT	202I	Origins of Civilization
ANT	220I	North American Indians
ANT	222I	Peoples of the North

ANT	230I	Hunters and Gatherers
ANT	232I	The Anthropology of Sex and Gender
ANT	301I	Victims of Progress: Indigenous Peoples in the Modern World
ANT	303I	Food and Culture
CLA	285I	Classical Mythology
CLA	291I	The Golden Age of Greece
CLA	292I	Rome, from Republic to Empire
COR	122I	Introduction to Islamic Civilization
COR	129I	Plato's Myth of the Cave: The Problem of Knowledge
COR	135I	American Studies I
COR	136I	American Studies II
COR	330I	Labor, Literature and the Arts
FRE	102I	Beginning French II
FRE	107I	Intensive Beginning French
FRE	201I	Intermediate French I
FRE	202I	Intermediate French II
FRE	207I	Intensive Intermediate French
FRE	291I	French Civilization: An Historical Approach (in English)
FRE	292I	Topics in Contemporary Francophone Civilization
GEO	201I	Cultural Geography
GER	102I	Beginning German II
GER	107I	Intensive Beginning German
GER	201I	Intermediate German I
GER	202I	Intermediate German II
HTY	101I	Western Civilization I
HTY	102I	Western Civilization II
HTY	131I	U.S. History to 1877
HTY	132I	U.S. History Since 1877
HTY	152I	The Islamic Near East
HTY	161I	Introduction to African History to Partition
HTY	162I	Introduction to African History Since Partition
HTY	171I	Traditional East Asia
HTY	172I	Modern East Asia
HTY	181I	Latin America I
HTY	182I	Latin America II
HUM	135I	American Studies I
HUM	136I	American Studies II
HUM	330I	Labor, Literature, and the Arts
ITA	201I	Intermediate Italian I
ITA	202I	Intermediate Italian II
LIN	111I	Language Learning and Bilingualism
LIN	202I	Languages of the World
PHI	310I	History of Ancient Philosophy
PHI	315I	Eastern Philosophy
PHI	320I	History of Medieval Philosophy
PHI	330I	History of Early Modern Philosophy
PHI	340I	History of Late Modern Philosophy
PHI	350I	American Philosophy
PHI	360I	Existentialism
RUS	102I	Beginning Russian II
RUS	201I	Intermediate Russian I
RUS	202I	Intermediate Russian II
RUS	291I	Russian and Soviet Culture and Civilization
SPA	102I	Beginning Spanish II
SPA	107I	Intensive Beginning Spanish
SPA	201I	Intermediate Spanish I
SPA	202I	Intermediate Spanish II
SPA	207I	Intensive Intermediate Spanish
WST	130I	Introduction to Women's Studies
<i>Social Sciences</i>		
ANT	101J	Anthropology: The Cultural View
ANT	201J	Human Origins

BUS	165J	Consumer Studies
COM	102J	Introduction to Communication
COR	110J	Old and in the Way?: Aging in America
COR	124J	Poverty in the USA
COR	126J	Global Enlightenment
COR	127J	The Documentary: Its Social, Political and Emotional Impact
COR	131J	Creating and Making Products
COR	134J	Men and Masculinities
COR	138J	Life Imitates Art: Understanding Human Behavior
COR	139J	Natural Resources in the Northeast Borderlands
COR	140J	Global Computing and its Implications
COR	141J	Hate- and Bias-motivated Crimes
CRM	215J	Criminology
ECO	201J	Principles of Macroeconomics
ECO	202J	Principles of Microeconomics
GEO	101J	Principles of Geography
GEO	120J	Geography of Maine
GEO	303J	Economic Geography
HRD	333J	Human Growth and Development
LIN	113J	Origins of Language
LIN	185J	Language, Mind, and Society
LIN	201J	Child Language
MOS	325J	Management of State and Local Government
POS	101J	Introduction to American Government
POS	102J	People and Politics
POS	104J	Introduction to International Relations
PSY	101J	General Psychology I
SOC	100J	Introduction to Sociology
SOC	215J	Criminology
SWO	101J	Introduction to Social Welfare
<i>Natural Sciences</i>		
ANT	102K	Biological Anthropology (with ANT 102 Lab)
AST	100K	Astronomy
AST	103K	Astronomy: Activities and Experiments
BIO	100K	Biological Basis of Human Activity
BIO	101K	Biological Foundations
BIO	102K	Biological Experiences
BIO	103K	Introduction to Marine Biology
BIO	104K	Marine Biology Laboratory
BIO	105K	Biological Principles I
BIO	106K	Laboratory Biology I
CHY	101K	Introduction to Chemistry
CHY	102K	Introduction to Laboratory Measurement
CHY	110K	Chemistry, Life, and the Environment
CHY	113K	Principles of Chemistry I
CHY	114K	Laboratory Techniques I
GEO	102K	Physical Geography
GEY	111K	Physical Geology
GEY	112K	Physical Geology Lab
OCE	100K	Introduction to Oceanography
OCE	101K	Oceanographic Laboratory
PHY	101K	Introduction to Physics
PHY	102K	Introduction to Physics Laboratory
PHY	111K	Elements of Physics I
PHY	121K	General Physics I
PHY	122K	General Physics Laboratory I
SCI	100K	Natural Science Topics
SCI	170K	Introduction to Physiology

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\*Prerequisites for all COR courses: English Composition and Skills of Analysis/Philosophy

**COR 110J Old and in the Way?:  
Aging in America**

Aging is a process that is common to all of us, yet many misconceptions and debates exist regarding growing old in American society. This course introduces students to the study of aging, its utility and ubiquity. We will examine the ways in which three different disciplines biology, sociology, and the developmental view conceptualize and discuss issues and questions about aging. Cr 3.

**COR 119F The Illuminated Autobiography**

An introduction to two creative processes the visual and the literary. The course will explore the means (shared, specialized, and complementary) by which they communicate thematic content, and the transformation through which subjective discovery becomes accessible form. Students will develop a control of structural elements within and between the two disciplines sufficient to write, illustrate, design, and publish a limited autobiographical narrative. Cr 3.

**COR 122I Introduction to Islamic Civilization**

This is a survey course that focuses on Islam as a universal religion embracing diverse cultural areas representing some 45 nations. The course will deal with Islam from religious-doctrinal, cultural-artistic, and socio-political perspectives. It begins with a historical survey of the rise and spread of Islam as a religion, examines its basic doctrine, beliefs, and institutions, highlights the cultural manifestations of Islam in art and literature, and deals with its impact on socio-political thought and action. The course ends with an analysis of the phenomenon of Islamic revivalism and fundamentalism in the context of global recovery of Islamic identity, and ongoing crises and conflicts in the Middle East and the Gulf Area. Cr 3.

**COR 124J Poverty in the USA**

This course will examine social, economic, and historical dimensions of poverty. It will introduce students to concepts and ideas from various disciplines to promote their understanding about this controversial and widely misunderstood topic. We take it as axiomatic that poverty must be understood in the broader contexts of inequalities of class, status, power, ethnicity, gender, and race which typify advanced capitalist societies. Far from being restricted to a small minority, poverty affects a large segment of the population. Cr 3.

**COR 126J Global Enlightenment**

This course is designed to familiarize students with the major problems confronting civilization as we approach the 21st century. Emphasis will be placed upon a variety of critical global issues dealing with such themes as energy/power generation, housing, pollution, waste disposal,

effective resource utilization, transportation, communications, food production, water, ecological/environmental problems, world population, cultural co-existence, education, and technological literacy. Solutions to such problems will be analyzed and discussed and the importance of interdependence among nations will be stressed throughout the course. Cr 3.

**COR 127J The Documentary: Its Social,  
Political and Emotional Impact**

Documentary films have had and continue to have a strong effect on individuals and society. A major goal of this survey is an understanding of the documentary process and an appreciation of the media (news, shorts, features) in which this form is used. Before the end of the semester, students will achieve the ability to analyze the form, structure, style, content, and impact of documentaries. Cr 3.

**COR 129H/I Plato's Myth of the Cave:  
The Problem of Knowledge**

This course explores multiple interpretations of Plato's myth and what it tells us about knowledge and learning. The myth is used as a springboard into the historical context of ancient Athens and what various disciplines can tell us about that culture. The myth is also examined from contemporary perspectives. The course relies heavily on primary works of the period (Plato, Aristophanes, Homer, Sophocles, Sappho, Thucydides). Cr 3.

**COR 131J Creating and Making Products**

We will trace a product from its conception to its purchase by consumers. Invention is discussed as a combination of preparation, inspiration, and work, followed by design, building, and testing of prototypes. A single working model does not a marketable product make. Market analysis, engineering design, manufacturing, plant construction, and environmental concerns are studied, as are ethical, aesthetic, and legal considerations. The course includes case studies, readings, and projects. Cr 3.

**COR 134J Men and Masculinities**

This course will explore men's identities and activities across various cultures and through their social practices as fathers, lovers, sons, husbands, workers, friends, athletes, and through other dimensions, such as power, heterosexuality, gay sexuality, social class, race, ethnicity, and age. Drawing heavily on sociological insights and literary examples, this multidisciplinary course develops comparative understandings of masculinities. Finally, the course tries to go beyond the masculinities, as we have grown up with them, to envision new, more human and enhancing ways men can define themselves as men. Cr 3.



**COR/HUM 135I American Studies I**

Drawing on political and economic history, literature and the arts, this course will study the diverse people, events, and ideas that helped shape and define the United States from its inception through the latter part of the nineteenth century.

Cr 3.

**COR/HUM 136I American Studies II**

This course is a continuation of COR/HUM 135I, covering the period extending from the late nineteenth century up to modern times.

Cr 3.

**COR 138F/J Life Imitates Art: Understanding Human Behavior**

The focus of this course is the understanding of the self and others. Through the study of basic psychological and theatrical concepts of behavior analysis, students will learn to examine and analyze individual and social behavior in both everyday life and performance settings.

Cr 3.

**COR 139J Natural Resources in the Northeast Borderlands**

This course will provide students with a knowledge of the assumptions and methods of geography, economics, environmental studies, and planning within the context of the natural resources and cross-border planning and management mechanisms of the northeastern US and eastern Canada. Students will understand the basic facts about the renewable resources of the region. They will also be challenged to think about many vital topics from new and different perspectives, ranging from their own cultural biases to the possible future direction of the global economy.

Cr 3.

**COR 140J Global Computing and its Implications**

The purpose of this course is two-fold. First, it introduces students to the competencies and actual experience involved in computer networking, i.e., familiarity with sending and receiving electronic mail, saving mail, and word processing associated with the creation of mail; familiarity with listservs, FTP, electronic journals, and Telnet. Second, the research/theory component will be concerned with the literature on various aspects of computer networking.

Cr 3.

**COR 141J Hate- and Bias-Motivated Crimes**

A series of guest speakers — experts and activists in the field — will familiarize students with both the historical and contemporary shape of bias-motivated crime. Students will explore the social and political context of such varied forms of violence, as well as the ways in

which social and law enforcement policies have facilitated and/or inhibited bias-motivated crime.

Cr 3.

**COR 213H Metaphor and Myth in Science and Literature**

A comparative study of science and literature, focusing on their aims, methods, and values, and on the nature of truth and creativity in each discipline. Readings in fiction, poetry, and modern physical and biological science will provide a basis for discussion of the metaphoric and mythic nature of scientific and literary discourse. Our goal is to demonstrate that both science and literature are useful, full of insight, and wondrous. This team-taught course will consist primarily of readings, small-group discussions, and position papers. No college science background is required.

Cr 3.

**COR 223H Life and Literature after Darwin**

A study of biological evolution and its reflections in literature. Readings on Darwin's theory of evolution in its original and modern forms, followed by the study of literature that depicts our attempts to understand, cope with, and transcend our biological nature. Discussions and writing assignments are aimed at helping students understand how science influences literature, and conversely, how literature translates science into human dimensions. No college biology background required.

Cr 3.

**COR 318H Photography and Poetry: Two Ways of Speaking**

This course deals with two modes of creative expression, photography and poetry. Its purpose is to help students read intelligently and sensitively both photographs and poems and to assist them in exploring connections between the two types of expression. A more far-reaching goal is to increase student understanding of the relationship between art and reality and of the complex nature of that knowledge provided us by the arts.

Cr 3.

**COR 330I Labor, Literature, and the Arts**

This course is designed to explore in an interdisciplinary fashion the life experiences of working people in an industrial society using history, fiction, poetry, visual arts, and music. In it, we examine the role of working people in the formulation of aspects of American culture. We will study cultural expressions of the work experience in industrial society both to better understand "where we come from," and to raise questions about where we want to go in contemporary society.

Cr 3.

# University Honors Program

*Director:* Willis B. Hayes (Geosciences)

*Honors Faculty:* Aicher (Foreign Languages and Classics), Caffentzis (Philosophy), Conway (Philosophy), Gavin (Philosophy), Hinckley (Foreign Languages and Classics), Houlihan (Business), Johnson (History), Medley (Economics), Thompson (Nursing)

The Honors Program provides an enriched undergraduate education to a selected group of students who are outstanding in their ability, curiosity, creativity, and motivation. Approximately 36 students are admitted to the Honors Program each year. Students entering the fall semester of their freshman or sophomore year, whether full-time or part-time and regardless of intended major, are eligible to apply. Juniors and seniors may also participate if they will be on campus long enough to complete program requirements. Students selected for the program work closely with faculty in a series of small seminar-type courses, specially designed for Honors Program students, which integrate knowledge from various disciplines more fully than is possible in the general curriculum. Later, Honors students take an advanced seminar and do a major independent thesis project under the direction of a faculty member in their department and an Honors faculty advisor. All Honors Program work stresses independent learning, original thinking, and the development of skills in research, writing, and oral expression.

The Honors Program is more than a series of courses. Students in the Honors Program are part of a special social and intellectual community centered at Honors House, 102 Bedford Street, on the Portland campus. Honors House contains three seminar rooms, a lounge, and the program's faculty and administrative offices. Students come to Honors House to attend classes, to study, to meet with professors, and to socialize. In addition, speakers, seminars, discussion groups, artistic presentations, and social events are scheduled regularly at Honors House.

Honors Program work is rewarding for all highly motivated students, regardless of their academic interests or career plans. It emphasizes the development of creative, independent ideas, and the skills necessary to communicate those ideas to others. As such, it is an excellent background for students preparing for graduate school and for those entering directly into the job market. Most important, it develops a love of inquiry, the aspect of education that goes beyond career preparation or the acquisition of knowledge.

To graduate with General University Honors, a student must successfully complete the following sequence:

HON	101	Honors Colloquium IA	(4 credits)
HON	102	Honors Colloquium IB	(4 credits)
HON	201	Honors Colloquium IIA	(4 credits)
HON	202	Honors Colloquium IIB	(4 credits)
HON	301	Honors Seminar	(3 credits)
HON	311	Thesis I (Workshop)	(3 credits)
HON	312	Thesis II	(3 credits)

Honors students may also choose from the following elective Honors courses:

HON	100	Writing in Honors	(3 credits)
HON	321	Honors Directed Research	(3 credits)
HON	331	Honors Directed Study	(3 credits)

Courses taken in the Honors Program may not be taken on a pass-fail basis.

## ***Honors Program Requirements***

### ***Core Curriculum Requirements***

Successful completion of the Honors Colloquia (HON 101, HON 102, HON 201, and HON 202) will satisfy the following Core curriculum requirements: Core Interdisciplinary, Skills of Analysis/Philosophy, History-centered Fine Arts, Humanities Literature and Other Times/Other Cultures. Students who do not successfully complete *all* the Honors Colloquia should consult with the director concerning the use of Honors Colloquia to satisfy Core curriculum requirements. Additionally, completion of HON 100, Writing in Honors, will satisfy the English Composition (Area C) of the Core requirements.

### ***Departmental Major Requirements***

Required and elective upper-level Honors courses (HON 301, HON 311, HON 312, HON 321, and HON 331) may be counted toward the number of credits departments require for graduation as a major. Students enrolled in the Honors Program should consult with their departmental advisors concerning the use of Honors Program courses to satisfy departmental major requirements.

### ***Admission to the Honors Program***

*Standards.* The Honors Program is designed for highly motivated, intellectually curious students who would benefit from working closely with faculty in a challenging and enriched course of study, and admission to the Honors Program is based on criteria designed to identify such students. Many factors are considered: the applicant's overall academic record; SAT and other test scores; extracurricular activities; recommendations; work experience; application essay; and an interview with an Honors faculty member. The Honors Program seeks a diverse group of students to provide a stimulating environment for all participants.

*Application Procedures and Deadlines.* Application to the Honors Program is separate from and in addition to application to the University. Students interested in applying for admission to the Honors Program should write or call University Honors Program, University of Southern Maine, Honors House, 102 Bedford Street, Portland, Maine 04103, (207) 780-4330, for an Honors Application Form. To be considered for September, a completed application should be received at Honors House by May 1. Later applications will be considered if there is space available in the program. As soon as a completed application is received, the applicant will be contacted to schedule an interview with a member of the Honors faculty. Applicants are notified of admissions decisions as soon as they are made or generally by July 1.

### ***Retention in the Honors Program***

To remain in good standing in the Honors Program, a student must successfully complete all Honors courses taken and also maintain an overall 3.0 grade point average during his or her first two years at USM and a 3.25 grade point average during his or her last two years. Before a student is dropped from the Honors Program for failure to maintain the required grade point average, he or she will have one probationary semester in which to regain the required grade point average.

### ***Graduating with General University Honors***

Honors students who successfully complete all required Honors courses (HON 101, HON 102, HON 201, HON 202, HON 301, HON 311, and HON 312) and have attained a 3.25 grade point average in all University work including Honors courses, will graduate with General University Honors. General University Honors designations are in addition to *cum laude*, *magna cum laude*, and *summa cum laude*, which are awarded solely on the basis of cumulative grade point average.

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**HON 100 Writing in Honors**

This course combines the basic mechanics of a college writing course with an introduction to text analysis and critical thinking. It is specifically designed to coordinate closely with HON 101 and to provide skills that will be used in all the Honors courses. It is *highly recommended* for all entering Honors students. Cr 3.

**HON 101 Honors Colloquium IA: Wisdom Stories from Four Worlds**

The worlds of Greece, Rome, ancient Israel, and the early Christian Middle East structured their cultures in ways that have profoundly affected our own. All have unique ways of defining origins, the relationship of the individual to society, and the nature of truth and justice. This course questions how our own present-day stories are related to those of our past. Cr 4.

**HON 102 Honors Colloquium IB: Piety, Politics, and Holy War**

This course focuses on the interaction of religious institutions and political systems, with particular reference to the Christian Church and the Islamic societies that emerged after the breakup of the Roman Empire. It will also examine mysticism (particularly the Sufis and the Christian desert ascetics), and the ways in which devotional power can become institutionalized and politicized. Cr 4.

**HON 201 Honors Colloquium IIA: Scientific Revolutions and Critiques**

What is science? How did this "way of knowing" develop, and what does it say about those who structure their ideas of "reality" by means of it? Is it particularly Western? Masculine? An offshoot of the Enlightenment? This course will move back and forth in time, first looking critically at science as an institution, then examining scientific literature and thought from important transition points in the past and present. Cr 4.

**HON 202 Honors Colloquium IIB: Progress, Process, or Permanence**

"All that is solid melts into air" (Karl Marx) is an apt metaphor for this course which examines

concepts of certainty and uncertainty from various 19th- and 20th-century perspectives. Who has the answers? Are there any answers? Can there be such a thing as "progress," and does our "modern" perspective (whatever that is) give us a unique point of view for addressing these issues? Cr 4.

**HON 301 Honors Seminar**

A different seminar on a topic of general interest will be offered each semester. The seminars will normally focus on perspectives from non-Western cultures. Cr 3.

**HON 311 Honors Thesis I: Workshop**

Each Honors student will plan and carry out a major thesis project as the final stage of Honors work. This workshop course will acquaint students with research methods for the project and assist them in the development and evaluation of project outlines. It will involve both group meetings and individual work with the student's project mentors. Cr 3.

**HON 312 Honors Thesis II**

This course will consist largely of independent research and writing, with assistance from the project mentors, carrying on the preliminary work done in Thesis I. The project will be completed, and the oral defense scheduled, at the end of the course. Cr 3.

**HON 321 Honors Directed Research**

This optional course allows an Honors student with interests in a particular subject area to do research in that area under the direction of a faculty supervisor. The research may be carried out in any subject area, with the approval of the director. Cr 3.

**HON 331 Honors Directed Study**

This optional course allows an Honors student to design a reading course in collaboration with a faculty supervisor. It is of particular value to students with self-designed majors who may need to supplement existing courses with additional material. Approval of the director is required. Cr 3.

# Women's Studies Program

*Director:* Diana E. Long, 94 Bedford St., Portland

*Women's Studies Council:* Cameron, Cole, Eagan, Gish, Holden, Kissen, Laz, Lockridge, Long, MacPherson, McCall, Rosenthal, Sadoff, Tizon, Winger

The Women's Studies program offers students the opportunity to study the lives, words, ideas, and cultural contributions of women as well as feminist theoretical approaches to interdisciplinary studies. Women's studies courses focus both on recovering women's lost or neglected pasts and on analyzing and re-thinking contemporary societies. Subject matter may include, for example, the philosophy of Simone de Beauvoir, the politics of Angela Davis, or the construction of race and gender in contemporary films. Courses also focus on such issues as gender construction of science, the effect of gender-biased language, inequities in work and pay, and the psycho-social development of women. Although women are central to the subject matter of women's studies courses, feminist analysis goes beyond specific issues of gender to challenge our traditional assumptions and histories. The Women's Studies program introduces students to new ways of thinking about such topics as technology, gender, and oppression. The program offers a major leading to a bachelor of arts degree through the Self-Designed Major Program in the College of Arts and Sciences. Students may also minor in women's studies.

Women's studies includes a core curriculum, WST sponsored topics courses, and departmental electives such as Earlier Women Writers, Sociology of Gender, or History of Women in the United States. Courses offered by the program are interdisciplinary and focus on the major texts, ideas, theories, and methods common to women's studies. Department courses examine the role of women and women's ideas in specific disciplines. Women's studies students develop skills in analysis, critical thought, writing, and practical application of theoretical understanding as well as a broad, integrated vision of society and culture.

Graduates with a self-designed major in women's studies are prepared for graduate and professional schools in a variety of disciplines. They are also prepared for careers in the social sciences, affirmative action and equal employment programs, education, personnel or career advising, women's agencies and programs, human services agencies, and public service.

*The women's studies major is offered through the College of Arts and Sciences Self-Designed Major. Please see Interdepartmental Major Programs section.*

## **Programs and Requirements**

### *Self-Designed Major in Women's Studies*

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major: 42.

The women's studies self-designed major consists of a minimum of 24 hours of required courses and 18 hours of women's studies elective or related courses.

Required Courses (select at least 24 hours)

#### **All of the following (15 hours)**

WST	130I	Introduction to Women's Studies
WST	280	Women, Knowledge & Power
WST	380	Politics of Difference
WST	390	Contemporary Feminist Theories
WST	400	Senior Seminar

#### **Either of the following (3 hours)**

WST	485	Internship
WST	486	Thesis

#### **One Topics Course from TWO of the following subject areas (6 hours)**

WST	235	Topics in Gender & Science, Technology & Health I
WST	335	Topics in Gender & Science, Technology & Health II
WST	435	Topics in Gender & Science, Technology & Health III
WST	245	Topics in Women, Culture & the Arts I
WST	345	Topics in Women, Culture & the Arts II
WST	445	Topics in Women, Culture & the Arts III

WST	255	Topics in Women, History & Resistance I
WST	355	Topics in Women, History & Resistance II
WST	455	Topics in Women, History & Resistance III
WST	265	Topics in Women, Gender & Institutions I
WST	365	Topics in Women, Gender & Institutions II
WST	465	Topics in Women, Gender & Institutions III

Women's Studies Elective and Related Courses: (at least 18 hours)

Any WST course may be used for elective credit.

Students must take one course focusing on periods before 1800, and one course dealing with cultures not in the Western mainstream. Students may take no more than three electives from one department or program.

WST	220	Topics in Women's Studies
WST	230	Psycho-social Development of Women
WST	320	Advanced Topics in Women's Studies
WST	470	Women's Studies Independent Study
ANT	232I	Anthropology of Sex & Gender
ARH	211G	Gender Identity and Modern Art
ARH	218	Women in Art
BUS	349	Women and Management
COM	484	Women in Film
CRM	317	Gender and Crime
ECO	322	Economics of Gender and Discrimination
ENG	379	Earlier Women Writers
ENG	387	Contemporary Women Writers
HTY	339	European Women's History
HTY	364	History of Women in the United States
PHI	110E	Introduction to Philosophy: Feminist Perspectives
PHI	265	Feminist Philosophy
PHI	290	Women Philosophers of Africa and the Diaspora
POS	201	Women and Politics
PSY	235	Psychology of Women
SOC	316	Sociology of Gender
SOC	330	Sociology of the Family
SOC	358	Sociology of Women's Work
ANES	665	Sex & Gender in New England

### *Self-Designed Minor in Women's Studies*

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed minor: 18.

The women's studies self-designed minor consists of a minimum of 9 hours of required courses and 9 hours of women's studies elective or related courses.

Required Courses (9 hours)

#### **Both of the following (6 hours)**

WST	130I	Introduction to Women's Studies
WST	280	Women, Knowledge & Power

#### **Either of the following (3 hours)**

WST	380	Politics of Difference
WST	390	Contemporary Feminist Theories

Women's Studies Elective and Related Courses (at least 9 hours. Two of the courses must be at the 300-level or above)

WST	220	Topics in Women's Studies
WST	230	Psycho-social Development of Women
WST	320	Advanced Topics in Women's Studies
WST	235	Topics in Gender & Science, Technology & Health I
WST	335	Topics in Gender & Science, Technology & Health II
WST	435	Topics in Gender & Science, Technology & Health III
WST	245	Topics in Women, Culture & the Arts I
WST	345	Topics in Women, Culture & the Arts II
WST	445	Topics in Women, Culture & the Arts III
WST	255	Topics in Women, History & Resistance I
WST	355	Topics in Women, History & Resistance II
WST	455	Topics in Women, History & Resistance III
WST	265	Topics in Women, Gender & Institutions I
WST	365	Topics in Women, Gender & Institutions II

WST	465	Topics in Women, Gender & Institutions III
WST	470	Independent Study
ANT	232I	Anthropology of Sex & Gender
ARH	211G	Gender Identity and Modern Art
ARH	218	Women in Art
BUS	349	Women and Management
COM	484	Women in Film
CRM	317	Gender and Crime
ECO	322	Economics of Gender and Discrimination
ENG	379	Earlier Women Writers
ENG	387	Contemporary Women Writers
HTY	339	European Women's History
HTY	364	History of Women in the United States
PHI	110E	Introduction to Philosophy: Feminist Perspectives
PHI	290	Women Philosophers of Africa and the Diaspora
POS	201	Women and Politics
PSY	235	Psychology of Women
SOC	316	Sociology of Gender
SOC	358	Sociology of Women's Work
ANES	665	Sex & Gender in New England

### *Major Credit and Grade Policy*

There are prerequisites for many of the women's studies courses. See departmental course listings for specific information. Certain courses may require the instructor's or director's permission. Others will accept permission of the instructor in lieu of the prerequisite. In some cases, waivers or equivalents for required courses will be accepted. No grade of D will count toward fulfillment of the women's studies self-designed major. Courses taken pass/fail are not acceptable.

### *Curriculum Summary and Guide*

The women's studies curriculum is built upon a shared commitment to the principles of educational excellence and educational opportunity. It is structured to ensure that students are exposed to the sophisticated body of knowledge that now defines women's studies as a discipline, even while allowing students the opportunity to develop skills in research, writing, and analysis. Consequently, there are prerequisites for upper-division courses. The first-year student is encouraged to complete Core curriculum requirements, including Introduction to Women's Studies. In the second year, students should take Women, Knowledge & Power, followed by Contemporary Feminist Theories and Politics of Difference. Students who minor in another discipline should also begin the suggested sequence in that year. Third-year schedules should include at least two women's studies-sponsored topics courses, drawn from two of our four subject areas. Thus a student might take WST 335 Topics in Gender & Science, Technology & Health I, in the fall, and WST 465 Topics in Women, Gender & Institutions III, in the spring. While any course offered under these categories will address the general goal outlined in the catalog, the specific content of the topics courses will change from semester to semester. Course descriptions by individual instructors will therefore be published and distributed during the preregistration period. Fourth-year students should take the Senior Seminar and should follow either the internship or thesis option. These courses offer advanced experience in feminist theories, research, and practice, while allowing students to pursue their own interests under careful guidance. Students must also complete elective requirements and any minor requirements in their fourth year.

### *Declaration of Major*

Students are encouraged to explore a variety of disciplines and courses before declaring a self-designed major in women's studies: they should take a minimum of 30 hours of Arts and Sciences courses, including at least one women's studies course. Consistent with Interdepartmental Major Board policy, students should declare a major prior to completion of 53 credits and prior to completion of 30 percent of the proposed major.

### **WST 130I Introduction to Women's Studies**

This course explores from a variety of perspectives the following inter-related themes and topics: the economic, political, and social status of women as a group and in discrete cultural contexts; the politics of representation, or how ideas about femininity and feminism are promoted throughout the media and other vehicles of culture; the construction of "consciousness," both through the media and through feminist tactics; women and collective action in the past, present, and future. Students are expected to practice their writing skills through formal essays. Offered every semester. Cr 3.

### **WST 280 Women, Knowledge & Power**

This course examines the ways in which the politics of knowledge production shape our culture and its gender relations. It explores both the role of educational institutions as they function to promote antifeminist culture, and how women have historically resisted, subverted, appropriated, and reformed traditional bodies of thought. Throughout, attention will be given to how competition, intimidation, and other factors can inhibit the formation of feminist communities of scholars/learners. Students will practice and be encouraged to appreciate the benefits of different modes of interpretation and writing, including personal narrative, socio-historical work, and contemporary cultural analysis. Prerequisites: WST 130I or permission of instructor. Offered fall semester. Cr 3.

### **WST 380 The Politics of Difference**

This course will introduce students to some of the complex relationships between the histories and goals of Western feminisms and those of specific nondominant cultures, inside or outside the United States. Central to the course are the ways that "differences" are embedded and enacted in the context of power relations in the larger society. While the specific content of this course is flexible, it will treat the advantages and disadvantages of using race, ethnicity, class, and sexuality as categories of analysis. Assignments should reinforce those skills learned in WST 280. Prerequisites: WST 280 or permission of instructor. Offered every third semester. Cr 3.

### **WST 390 Contemporary Feminist Theories**

This course will introduce students to the efforts of many academic feminists to organize, appropriate, and/or subvert what is sometimes termed "post-structuralist" thought, an enormous body of knowledge that, although generated largely in France, Italy, Great Britain, and North America, has often affected non-Western feminisms as well. The focus of this course will vary depending on the instructor, but it should be based on the intimate relationships between feminist theories and feminist practice. At least

one section of this course will be devoted to focused political analysis of a single subject: pornography, free speech and censorship, reproductive technologies, sexual harassment, pay equity, domestic violence, etc. Students will be asked to write a theoretically informed research paper on a topic of their own choosing. Prerequisites: WST 280 or permission of instructor. Offered spring semester. Cr 3.

### **WST 400 Senior Seminar**

The seminar will allow students to explore a topic in some detail. Topics will change from semester to semester, but each will be broad enough to support and generate divergent approaches and points of view. Possible topics include "Women and the Law," "The Ethics of Care," "Post-colonial Feminisms," "Women and the Politics of Community," "Feminist Aesthetics," "Science and Technologies of Reproduction." Students will be asked to write a research paper on a topic of their own choosing. Prerequisite: senior standing. Cr 3.

### **WST 485 Internship**

Students will have the opportunity to do an internship or a thesis. The internship requires students to work closely with a group, business, or organization for one semester, after which they will report to the Women's Studies Council. Prerequisites: senior standing and women's studies major or minor. Cr 3-6.

### **WST 486 Thesis**

Students will have the opportunity to do a thesis or an internship. The thesis allows students to pursue guided research on a topic of their choosing. The recommended length for a thesis is 30 pages, and it should include a substantial bibliography. Thesis students should choose three readers, including an advisor whose interests and scholarship are in line with their own. Prerequisites: senior standing and women's studies major or minor. Cr 3.

### *Topics Courses*

### **WST 235, 335, 435 Topics in Gender & Science, Technology & Health I, II, III**

Courses in this category will include: a critique of traditional science, technology, and medicine; representation of feminist possibilities and communities at work on issues of knowledge, health, and power; reconstructions of science, technology and health care based on new theories and practices. Each of these courses will ask similar questions: How have scientific thinking and gendered technologies affected women's bodily experience? Is science fiction coming to pass in new reproductive technologies and genetic projects? How has science's view of the female and feminine been problematized by reading works of fiction? Can feminists



escape the difficulties of writing about or prescribing for others? Does science create racial as well as sexual subjects? How can it be used (to quote bell hooks) to "talk race and fight racism?" Prerequisite: WST 435 requires permission of the instructor. Cr 3.

**WST 245, 345, 445 Topics in Women, Culture & the Arts I, II, III**

Courses in this category will examine some aspect of women's relationships to specific vehicles of "culture," including the plastic, literary, and the performing arts. They may focus on women as producers of culture; on how women and femininity have been represented in written, visual, or oral texts; or on feminism and cultural or aesthetic theory. Possible subjects may include: feminist philosophy, feminism and film theory, women and the history of music, women and popular culture. Prerequisite: WST 445 requires permission of the instructor. Cr 3.

**WST 255, 355, 455 Topics in Women, History & Resistance I, II, III**

Courses in this category will explore the political worlds of women in general, and laboring women in particular, which have often been obscured by traditional histories that narrowly define politics as a set of formal institutions and practices. These courses explore forms of female activism located not only in governments, political parties, and unions but also in the female collaborative activities and grassroots organization. Emphasis will be placed on the relationship between female activism and social, economic, and cultural change. Topics include: women in third world struggles for national liberation; working class women in contemporary and historical movements; struggles for equal rights; the nineteenth century women's movement; women in peasant revolts; everyday forms of female resistance; union organizing; women and the politics of identity. Prerequisite: WST 455 requires permission of the instructor. Cr 3.

**WST 265, 365, 465 Topics in Women, Gender & Institutions I, II, III**

Courses in this category will focus on gender relations and the construction of the category "women" in the context of social structures and institutions. Both social structures and institutions are based on and reinforce assumptions

about sex and gender, women and men, and masculinity and femininity. And both ultimately shape the experiences of women and men in society. These courses will examine the experiences of women and men as gendered beings and the way those experiences follow from, perpetuate, and/or alter institutions. The emphasis may be on industrial or non-industrial societies, and institutions for analysis will vary. Possibilities include: law and legal institutions, economic institutions, subsistence strategies in non-industrial societies, systems of stratification, conceptual systems, and education. Prerequisite: WST 465 requires permission of the instructor. Cr 3.

*Elective Courses*

**WST 220 Topics in Women's Studies**

Topic areas not already covered by regular course offerings in women's studies will be offered. The course may be repeated for credit when different topics are considered. Cr 3.

**WST 230 Psycho-social Development of Women**

This course is designed to introduce, investigate, and critique traditional developmental theory as well as the current research which seeks to expand the basic knowledge of women's development and the ways in which women learn. Emphasis will be placed on the study of psychological, cognitive, moral, and sociological development of women from conception through the life span. The interaction of biological and environmental factors will be considered as new theories and research related to women's development over the life span are explored. Prerequisite: WST 130 or permission of the instructor. Cr 3.

**WST 320 Advanced Topics in Women's Studies**

Advanced topic areas not already covered by regular course offerings in women's studies will be offered. The course may be repeated for credit when different topics are considered. Cr 3.

**WST 470 Independent Study**

This course provides junior and senior students with the opportunity to pursue a project independently, concentrate on a particular subject of concern, or conduct individually arranged reading or research studies under the advice and direction of a faculty member. Prerequisites: advanced standing and permission of the director. Cr 3.

# College of Arts and Sciences

*Dean:* Richard G. Stebbins; *Associate Dean:* Irwin D. Novak; *Director of Student Academic Affairs:* Margaret A. Fahey; *Coordinator of Scheduling:* Maurice J. Chabot; *Academic Counselor/Manager CAS Advising:* Pamela Edwards

The College of Arts and Sciences offers a wide variety of majors and programs leading to graduate and professional study, and directly to careers. The College offers courses and programs of study to students in all schools of the University for intellectual development and aesthetic enrichment.

## Departmental Organization

The College of Arts and Sciences is composed of the following departments:

Art	History
Biological Sciences	Mathematics and Statistics
Chemistry	Music
Communication	Philosophy
Criminology	Physics
Economics	Political Science
English	Psychology
Environmental Science and Policy	Social Work
Foreign Languages and Classics	Sociology
Geography-Anthropology	Theatre
Geosciences	

## Baccalaureate Degree Programs

Programs of study leading to a bachelor of arts (B.A.) degree are available in the areas listed below. In addition, bachelor of fine arts (B.F.A.) is offered by the Art Department; bachelor of science in applied chemistry (B.S.) is offered by the Department of Chemistry; and bachelor of music in performance (B.M.) and bachelor of music in music education (B.M.) is offered by the Music Department.

Art	Mathematics
Biology	Music
Chemistry	Philosophy
Communication	Physics
Criminology	Political Science
Economics	Psychology
English	Sociology
Environmental Science and Policy	Social Work
French	Theatre
Geography-Anthropology	
Geology	
History	

### Self-Designed

#### a) Group Contract:

Biotechnology	International Studies
Classical Studies	Linguistics
Foreign Languages	Russian Studies
French Studies	Social Science
German Studies	Women's Studies
Hispanic Studies	

#### b) Individual Contract

**Requirements for all  
Baccalaureate  
Degree Candidates**

To be eligible for a baccalaureate degree from the University, a student must meet the following:

- I. minimum proficiency requirements
- II. Core curriculum requirements
- III. departmental or program requirements
- IV. minimum of 120 credits of accepted courses
- V. minimum of 2.0 cumulative grade point average

**Minimum Proficiency Requirements**

Every baccalaureate degree student who is admitted to the University must produce evidence (no credit granted) of both a minimum writing proficiency and a minimum mathematics proficiency. These requirements are described in the Academic Policies section of this catalog.

**Core Curriculum Requirements**

Every baccalaureate degree student who is admitted to the University is required to meet the Core curriculum requirements. These are set out in the section on Core curriculum.

**Departmental or Program Requirements**

The College requires that every baccalaureate degree student fulfill the requirements of a major program. Students normally declare a major program prior to completing 53 credits. Students who wish to declare a major must obtain a Declaration of Major form from the Dean's Office. Students are required to complete mathematics and English proficiencies prior to declaring a major in the College of Arts and Sciences.

Fine arts students, especially in the Departments of Art and Music, usually must begin their program earlier owing to portfolio and audition requirements. Students planning to major in a science are urged to obtain an advisor in the appropriate department and begin the required course sequence as early as possible.

Selecting a major is an important and often difficult decision. Students who are undecided about a major should take courses in programs that interest them before making a final decision. Undecided students are encouraged to consult the Advising and Career Services Center as well as those departments that interest them prior to declaring a major.

Individual departmental or program requirements are described in the sections that follow. Students should note that not all courses listed and described in the following sections are offered each academic year. Consult the particular department or program for further information about the year and semester a specific course will be offered.

**Associate of Arts  
Degree Program  
in Liberal Arts  
(60 credits)**

The College of Arts and Sciences offers a two-year degree program leading to the associate of arts (A.A.) degree in liberal arts. Graduates of this program may transfer into a baccalaureate degree program.

To be eligible for the associate of arts degree in liberal arts from the University, a student must meet the following:

- I. minimum proficiency requirements
- II. Core curriculum requirements
- III. electives from the College of Arts and Sciences. The degree candidate may take up to two courses at the 100 level or above outside the College of Arts and Sciences. Taking additional courses in this category requires permission of the Dean.

A list of courses approved for satisfying the requirements of the Core curriculum may be found in the section on the Core.

Students who wish to transfer into a baccalaureate degree program should ensure that their electives are from courses carrying a number of 100 or higher. They may also wish to consult the major requirements of baccalaureate programs in which they are interested.

**Other Educational  
Opportunities**

**Independent Study Term**

Students who have an academic project which they feel would contribute significantly to their program may, with the approval of a faculty sponsor, the

appropriate department, and the dean, apply for a semester of independent study. General guidelines for the independent study term may be obtained from departments.

### *Double Majors*

Students interested in a double major should consult the appropriate departments and obtain a declaration of major form from the Registrar's Office.

### *College of Arts and Sciences Minors*

Minors are available in the following departments: art history, biology, chemistry, communication, criminology, English, foreign language, geography/anthropology, geology, history, mathematics, music, physics, political science, and sociology.

### *School of Business Minor*

The School of Business offers a 21-credit hour minor in business administration to any baccalaureate student. The minor is recommended to liberal arts majors with a strong interest in business theory and practice. For more information, see the School of Business, Economics and Management section of this catalog.

### *Teacher Certification*

Students who wish to prepare for a career in teaching at the elementary, middle, or secondary levels work with both the College of Arts and Sciences and the College of Education and Human Development through the Extended Teacher Education Program (ETEP), which offer coursework and experiences at the undergraduate and post-baccalaureate levels.

Undergraduates who seek teacher certification follow these steps:

#### 1. *Undergraduate Level*

- a. *College of Arts and Sciences*: Students complete a baccalaureate degree with a major in the liberal arts, in a subject related to the desired teaching level and subject;
- b. *College of Education and Human Development*: Students complete the 18-credit minor in educational studies (recommended, but optional)

#### 2. *Post-Baccalaureate Level*

##### *College of Education and Human Development*

- a. Complete the one-year certification program (approximately 33 graduate credits)
- b. Complete the master of science in education degree (optional—an additional 18 credits taken over two years during the summer and on weekends)

Additional information on the Extended Teacher Education Program can be found in the College of Education and Human Development section of this catalog.

### *Graduate Programs in the College of Arts and Sciences*

The College of Arts and Sciences offers two programs leading to the master's degree. These are the master of arts in American and New England Studies and the master of science in statistics. Consult the University's graduate catalog for further information.

### *College of Arts and Sciences Courses*

The College also offers courses on a variety of topics and themes which are not sponsored by individual departments. The courses currently offered are the following.

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### **ARS 100 Exploring Careers in the Liberal Arts and Sciences**

This course is designed for students participating in the University's Cooperative Education Program. In addition to their cooperative education placement, students will read texts, meet for a series of seminars, keep journals, and write a final paper. The focus of these activities is to help students integrate knowledge gained both in the classroom and through independent study with observations and experiences obtained in the field. Offered on a pass/fail basis. May be repeated for credit, up to a maximum of 12 credits. Cr 3-6.

### **ARS 123 Topics of Human Sexuality**

The purpose of this course is to provide individuals with a thorough understanding and accurate information concerning their sexuality. The course will show the subtle complex interrelationship among sociology, biology, philosophy, psychology, theology, behavior, and interpersonal relationships as they pertain to sexuality. Topics to be discussed include sexual growth and development, sexual attitudes, sexual anatomy and physiology of males and females, human sexual response cycle, sexual attraction, love and relationships, contraception, homosexuality and bisexuality, alternative forms of sexual behavior, sexual fantasies, sexual dysfunctions and problems, sexual history and research. Cr 3.

### **ARS 223 Attitudes: Human Sexuality**

The purpose of this course is to allow individuals to better understand their sexual feelings, attitudes, and relationships. Emphasis will be placed on developing skills necessary in deal-

ing with one's own sexuality, as well as the sexuality of others. Topic areas will include sexual communication skills, body images and sensory awareness, values clarification, male and female sexual identity, sexual assertiveness, overcoming sexual dysfunctions, sexual lifestyles, understanding sexual deviancy, sexual scripting. The course will rely heavily on lecture, group process, and role playing. Cr 3.

### **SDM 400 Senior Thesis for Self-Designed Majors**

This course provides senior SDES independent contract majors an opportunity to receive credit for the required senior thesis or project. Thesis or project must be developed in consultation with student's faculty advisors and approved in advance by the SDES Committee. Prerequisites: admission to self-designed major program and senior standing. Cr 1-6.

### **SDM 401 Senior Seminar in Social Science**

The capstone to the major and required for the degree, this seminar explores the nature and the craft of social science. The topic will vary but will always be a particular theme or set of issues that span various social science disciplines, such as Competing Methodologies in Social Science, Ethnohistory, United States Studies, etc. Students are expected, through discussion and writing, to apply the knowledge and skills acquired in previous social science courses. Prerequisite: The course is open only to social science majors or students majoring in one of the eight disciplines that make up the social science major. Students must also be seniors or second semester juniors. Cr 3.

# Self-Designed Major Programs

*Self-Designed Major Committee:* Harris, Hinckley, Kilroy, McDaniel, O'Mahoney-Damon, West

The self-designed major program allows students to receive a bachelor of arts degree. This program offers many opportunities for students to study traditional subjects as well as new fields of inquiry that the University does not offer through existing departments. The multidisciplinary format of self-designed majors allows students the flexibility of pursuing their educational interests in a topical or thematic context rather than through an established discipline.

There are two types of self-designed major programs, (a) individual contract and (b) group contract programs. Students may work for a self-designed major degree through either type of program. All programs are approved and administered by the Self-Designed Major Committee.

## **A. Individual Contract Programs**

The individual self-designed major allows the student to design a multidisciplinary program not available through a department major or a group contract program. The Self-Designed Major Committee reviews student proposals at its regularly scheduled meetings throughout the academic year. Proposals should be approved normally during the student's sophomore year. Application forms and guidelines may be obtained from the Office of the Dean of the College of Arts and Sciences.

## **B. Group Contract Programs**

Group contract programs are coherent multidisciplinary studies representing fields of interest that have developed over the years at USM. Additional group contract programs will be considered by the Self-Designed Major Committee as they are required for enhancing the quality of the CAS curriculum. USM currently offers the following group contract programs:

Biotechnology	Hispanic Studies
Classical Studies	International Studies
Foreign Languages	Linguistics
French Studies	Russian Studies
German Studies	Social Science
	Women's Studies

## **Biotechnology**

*Coordinator:* Ah-Kau Ng, 117 Science Building, Portland and Foundation for Blood Research, Scarborough

*Steering Committee:* Gainey, Holmes, Knight, Ng, Rhodes, Ricci

The biotechnology self-designed major is an interdisciplinary degree program designed to provide students with a liberal arts education emphasizing cellular and molecular biology.

Students may apply for admission to the program at the end of their freshman year (after completion of one year of chemistry and one year of biology coursework). The committee will recommend the most qualified students for admission to the program. Minimum requirements are a "B" average in all coursework required for the program. The number of students admitted to the program will be determined by the committee.

Students will be required to maintain a 2.5 GPA in required coursework to remain in the program. Students who do not maintain this average will be placed on probation for one semester; if no improvement is noted, they will be dismissed from the program. Required coursework with a grade of "D" will not be counted toward fulfilling the program requirement.

Complete details and guidelines may be obtained from the program coordinator.

## **Program and Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in biotechnology: 82 or 84.

Biology (39 credit hours)  
 2 semesters Freshman Biology (BIO 105K, 106K, 107, 108)  
 Genetics (BIO 301)  
 Genetics Laboratory (BIO 302)  
 Microbiology (BIO 311, 312)  
 Cell and Molecular Biology (BIO 409, 410)  
 Immunology (BIO 431/AIM 531)  
 Cellular Immunology Laboratory (AIM 511/611) (6 credit hours)  
 Molecular Immunology Laboratory (AIM 521/621) (6 credit hours)

Chemistry (27 credit hours)  
 2 semesters Freshman Chemistry (CHY 113, 114, 115, 116)  
 2 semesters Organic Chemistry (CHY 251, 252, 253, 254)  
 Analytical Chemistry (CHY 231, 232)  
 Biochemistry (CHY 361, 362)

Physics (8 or 10 credit hours)  
 2 semesters Introductory Physics (PHY 121K, 122K, 123, 124 or PHY 111K, 112)

Mathematics (8 credit hours)  
 1 semester Calculus (MAT 152D)  
 1 semester Statistics (MAT 220)

## Classical Studies (Concentration in either Greek or Latin)

*Coordinator:* Lois Hinkley, 55 Exeter Street, Portland  
 The minimum number of credits (exclusive of the University's Core curriculum) for the self-designed major in Classical studies: 36.  
 For the concentration in Latin, the student takes three upper level (above 100) courses in Latin and two upper level courses in Greek; for the concentration in Greek, the student takes three upper level courses in Greek and two upper level courses in Latin.

In addition, the student takes the following courses in ancient civilization and literature in translation:

CLA	283H	Epic Hero
CLA	284H	Tragic Hero
CLA	285I	Classical Mythology
CLA	291I	Golden Age of Greece
CLA	292I	Rome, from Republic to Empire

Also, the student chooses two courses from the following electives:

ARH	111G	History of Art I
ARH	212	Classical Art
HTY	303	History of the Ancient Near East and Greece
HTY	304	History of Rome
PHI	310	Ancient Philosophy
POS	289	Political and Social Thought I

## Foreign Languages

*Coordinator:* Mara Ubans, 55 Exeter Street, Portland  
 The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in foreign languages: 36.

For a major in foreign languages, students may choose any two of the following languages and take these courses in the languages of their choice:

French: FRE 321, 323, 331, 291I, or 292I; any two of 361, 362H, or 363  
 German: GER 321, 322, 351H, 352H, 281H, 470  
 Greek: GRE 251, 252, two semesters of GRE 470, CLA 291I or HTY 303, and either CLA 283H, 284H or 285I  
 Latin: LAT 251, 252, two semesters of LAT 470, CLA 292I or HTY 304, and either CLA 283H or 284H  
 Russian: RUS 281H, 301, 302, 321, 351, 470  
 Spanish: SPA 303, 331\*, 332\*, 351H, 352H, 281H, 270 or 450 (\*SPA 301, 302 are prerequisites)

In addition, it is strongly recommended that students take CLA 171 or an Indo-European linguistics course.

## French Studies

*Coordinator:* Lucia di Benedetto, 55 Exeter Street, Portland

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in French studies: 36.

French Language and Literature

*Any three*

FRE	305	French Phonetics
FRE	321	Workshop in Writing French
FRE	323	Workshop in Speaking French
FRE	331	Workshop in French Literary Analysis

*Any two*

FRE	361	The French Novel
FRE	362H	French Poetry
FRE	363H	The French Theatre

One French literature course from the 400 level.

French Civilization and Literature in Translation

FRE	2911	French Civilization: An Historical Approach
FRE	2921	Topics in Contemporary Francophone Civilization

*Electives (any four)*

LAT	101-102	Beginning Latin
HTY	316	French Revolution and Napoleon
HTY	319	The Age of Revolutions and Romanticism
HTY	322	20th Century Europe
POS	235	Democratic Governments of Europe
ARH	316	Modern Art
MUS	203	Music in the 20th Century

## German Studies

*Coordinator:* Mara Ubans, 55 Exeter Street, Portland

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in German studies: 36.

German Language and Literature

GER	321-322	Composition/Conversation
GER	351H-352H	Introduction to German Literature
GER	281H	The German Novelle
GER	470	Independent Study

Social Sciences (any three)

HTY	320	Europe at the Turn of the Century (1871-1913)
HTY	322	20th-Century Europe
HTY	324	World Wars I and II: European War and Diplomacy
HTY	330	Germany: Bismarck to Hitler
HTY	334	The Holocaust: Policy, Practice, Response
HTY	336	Leaders of the 20th Century: Churchill, Roosevelt, Hitler

Humanities (any three)

CLA	171	Etymology for Everyone
CLA	283H	The Epic Hero in Ancient Literature
CLA	284H	The Tragic Hero in Ancient Literature
CLA	285H	Classical Mythology
ENG	332	Introduction to Linguistics
ENG	341	Contemporary Critical Theories
ENG	316	The Bible
PHI	340	History of Late Modern Philosophy

Course substitutions can be made in the Social Sciences and Humanities categories upon prior approval.

## Hispanic Studies

*Coordinator:* Charlene Suscavage, 55 Exeter Street, Portland

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in Hispanic studies: 36.

Required Courses

Spanish Language and Literature

SPA	*301	Practice in Conversation
SPA	302	Practice in Writing
SPA	303	Speaking Through Reading
SPA	*331	Advanced Conversation



SPA	332	Advanced Grammar and Stylistics
SPA	351H	Readings in Contemporary Spanish Literature
SPA	352H	Readings in Modern Latin American Literature
History and Culture		
SPA	270	The Culture and Civilization of Spain
HTY	181I	History of Latin America I
HTY	182I	History of Latin America II

\*Students who earn advanced placement for 301 and/or 331 must fulfill the requirements for the major with courses from the other areas of the major.

*Electives (any two)*

SPA	281H	Masterpieces of Spanish American and Brazilian Literature (in English translation)
SPA	450	Topics in Hispanic Language and Literature
HTY	381	Latin America and the United States
HTY	383	The Society and Culture of Latin America
ECO	370	International Economics
GEO	301	Political Geography
ANT	205	Latin American Cultural History
ANT	250	Archaeology of South America

At least two semesters of another Romance language are strongly recommended.

Course substitutions can be made in the electives upon prior approval.

## Russian Studies

*Coordinator:* Charlotte Rosenthal, 55 Exeter Street, Portland

The minimum number of credits (exclusive of the University's Core curriculum) required for the self-designed major in Russian studies: 36.

Humanities

RUS	281H	Russian Literature in English Translation
RUS	291I	Russian Culture and Civilization (in English)
RUS	301	Advanced Intermediate Russian I
RUS	302	Advanced Intermediate Russian II
RUS	321	Advanced Russian
RUS	351	Seminar in Russian Literature
RUS	470	Independent Study

Social Sciences\*

ECO	351	Economic System of the Former Soviet Union
HTY	317	Early Russian History
HTY	318	Russia and the Soviet Union since 1855
POS	237	Government and Politics of Russia
POS	239	Russian Foreign Policy

Other courses recommended, but not required, for the self-designed major in Russian studies:

POS	104J	Introduction to International Relations
POS	236	Post-Leninist Politics
HTY	101I	Western Civilization I
HTY	102I	Western Civilization II
GEO	101J	Principles of Geography
SOC	311	Social Change in Eastern Europe

\*Note that all upper division courses have prerequisites.

## International Studies

*International Studies Council:* Woshinsky, director; Bjelic, Dietrich, Holden, Medley, Rogoff, Rosenthal, Tizon, Williams, Winger

The International Studies program serves students interested in world affairs. A wide range of students with a diverse set of interests in global issues will find the program adaptable to their needs. It prepares graduates for a varied set of careers in international affairs. Students may go on to work in government, business, intergovernmental organizations, nonprofit institutions, and teaching. From the broadest perspective, international studies nurtures a solid understanding of world problems. It provides the analytical skills for understanding vital issues of the emerging global community.

To receive the bachelor's degree with a specialization in international studies, a student must complete a minimum of 120 credits. These include all

University proficiency and Core requirements, competency (to third-year level) in a foreign language, and 48 hours of coursework within the international studies program.

The 48 credits within the program must be distributed as follows:

24 hours taken from the list of approved courses (see program director) in *one* of the program's Core departments: political science, economics, history.

9 hours of approved courses in *each* of the program's other *two* Core departments. Note that at least two courses taken in economics must be at the 300-level; at least two courses in political science must be at the 200-level; and in history two courses *other* than Western Civilization I and II must be taken.

6 hours of approved courses taken in at least *two* of the other departments which participate in this program. INS courses, as well as certain COR courses (see program director), count toward this requirement as credit from one participating department.

In addition to the courses listed above, students must achieve competency in a foreign language through the third-year level. This competency may be achieved through coursework at USM, through transfer credits from another university, through some intensive summer study program at an American university, through study abroad, or through background (having lived abroad, being a foreign student, etc.)

In all cases of doubt, the final decision as to whether a student has completed the program's language requirement rests with the USM Department of Foreign Languages. Students who can show that they have achieved at least third-year level in some language other than English need take no foreign language courses at USM, although they may do so if they wish. Only courses *above* third-year level in any language will count toward the 48-hour requirement for this major.

Once a year, the director of the International Studies program will issue a mini-calendar listing all USM courses acceptable for requirements in this major. Students must refer to this calendar when choosing courses. The director may, in rare cases, decide that a course not listed in the mini-calendar could fulfill a particular student's major requirements. For example, a new COR course with an international focus might qualify as an exception, or some experimental offering under the 199 designation. Exceptions of this sort are unusual; they must be given by the director to the student in writing, with a copy placed in the student's files.

Those students who wish to undertake independent research projects may do so with INS 480 and INS 481. Exceptional students will be encouraged to do a senior thesis. This endeavor will provide six hours of academic credit and will normally result in a sound, scholarly paper of 50-plus pages. A final defense of the paper, involving three faculty readers, is required. Students awarded a grade of at least 90 on the thesis will be recognized as having graduated "With Honors in International Studies."

For admittance into the program, the student must have:

completed a minimum of 30 credit hours in arts and sciences. Of these, at least 15 credit hours must be completed in CAS courses at USM;

achieved a GPA of 2.5 or better in USM courses, including a minimum of 2.8 or better in CAS courses at USM;

completed USM's minimum proficiency requirements.

To graduate from this program, the student:

must have completed 48 hours of coursework, distributed in the manner described above;

must have attained a GPA at USM of 2.5 or better, including a GPA of 2.8 or better in CAS courses at USM;

must have attained grades of C- or higher in all international studies courses, including courses in foreign language. No course taken on a pass/fail basis will count toward this major.

Students who wish to graduate with honors in this major must:  
maintain a GPA of 3.2 or better;

be recommended by a faculty member who teaches courses within the program, one who is willing to supervise a thesis;

be approved by the program's Council of Faculty Advisers;

take six hours of coursework, beyond the 48-hour minimum, under the Independent Study and Senior Thesis designations;

write a thesis of approximately 50 pages, then present it to, and defend it before, a committee composed of three faculty members approved by the director of the program;

obtain a grade of 90 or better on the thesis, as determined by the three faculty members who read it and hear the student's defense.

In the special case of students who complete a thesis, but obtain a grade of less than 90 (or students who complete a thesis with a grade of 90 or better, but whose final GPA drops below 3.2), those students will still receive six hours of course credit for their thesis work, even though they will not be able to graduate with honors. A student's grade for those six hours of coursework will be determined by the thesis committee. A thesis grade of less than C—cannot count toward completion of any requirements within the International Studies program.

All students in this program are strongly encouraged to engage in a program of study abroad. A summer, a semester, or even a year or more abroad will greatly enhance any student's understanding of world affairs. The director will work closely with any student who wishes to explore this option and will make every effort to facilitate this possibility for the student.

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#### **INS 480 Independent Study I**

This course is intended for advanced students in international studies who want to develop their research skills and knowledge of particular subjects in international affairs. The student must work with a faculty advisor in outlining and pursuing the proposed course of study. All proposals for Independent Study must be approved by the director of the program. Prerequisite: advanced standing in the program. Cr 3.

#### **INS 481 Independent Study II**

This course is intended for the exceptional student who wishes to carry out two independent study projects during an undergraduate career. The course description and prerequisites are identical to those given above for INS 480. Cr 3.

#### **INS 485 International Studies Internship**

Through internships in the International Studies program, students achieve the experience and background for understanding problems and practices of international scope. For internship arrangements and course responsibilities, consult the program director of the program. This

course is open only to advanced students in international studies and requires the permission of the program director. Cr 3-6.

#### **INS 490 International Studies Seminar**

The seminar focuses on theories of international relations and current methodology in the field. Students will engage in intensive analysis of classical and current works. Prerequisite: advanced standing in the program or permission of the instructor. Cr 3.

#### **INS 495 Senior Thesis**

Selected students in international studies program will be encouraged to write a senior thesis. The topic should be chosen in consultation with a faculty advisor. Normally, it will be a two-semester project for the student's senior year. Extensive collaboration between student and thesis advisor is expected. The final paper should be approximately 50 pages in length and will be evaluated by a committee consisting of the thesis advisor and two additional faculty members appointed by the program director. Cr 3.

*Coordinator:* Wayne Cowart, 65 Exeter Street, Portland

*Linguistics Council:* Bjelic, Cowart, K. Gilbert (Me. Med. Ctr.), Kinsella, McDaniel, W. Nye, (Baxter School for the Deaf), Rusch, Tizon, Wood

Language plays a crucial role in almost every aspect of human life. It is fundamental to commerce, government, education, science, technology, the arts, and the mass media. The field of linguistics is devoted to the study of language, its nature, its uses, and its limitations. Because of its wide relevance, undergraduate study in linguistics can be a springboard to careers in many areas.

The Linguistics program is targeted on two career areas where linguistics is of practical relevance. One of these includes certain health and social service professions, particularly language disorders, speech and language therapy, audiology, and services for the Deaf. Another area is education, particularly such specialties as learning disabilities (such as dyslexia), literacy education, English as a Second Language, Deaf education, and foreign language teaching. In all of these areas there are entry-level positions for which graduates may qualify with an appropriately designed major in linguistics. In each case, however, students must consult carefully with the faculty to determine what particular requirements they must satisfy to pursue particular careers. Appropriate programs can also be designed for students with interests in computer science (user interface design, speech recognition, parsing, database query systems, etc.), government and law (international law, interpretation of legal codes, treaties, texts, etc.), language policy, diplomacy, translation, etc.), and other areas. Among the areas of graduate study where a background in linguistics can be valuable are (in addition to linguistics itself) cognitive science, psychology, foreign languages, speech science, computer science/artificial intelligence, anthropology and philosophy.

The goals of the program are 1) to help each student develop an understanding of the nature of natural language, and 2) to help each student compile a record of achievement that will facilitate the student's search for employment or further education.

## Requirements

Number of credits required to complete the self-designed major in linguistics: 45 (exclusive of the Core curriculum). To enroll in the program, students must have completed LIN 185J with a grade of at least B.

- a. Linguistics Core: LIN 185J, LIN 311-314 (15 hours)
- b. Research component: LIN 390, LIN 498 (6-9 hours, depending on whether LIN 498 is taken once or twice). Note that the statistics prerequisite for LIN 390 does not count toward the 45-hour requirement.
- c. Language component: For these purposes, a second language is any natural language other than the student's native language. Linguistics majors must demonstrate competency in a second language up to at least the level expected of students completing four semesters of study of that language. Students who have not mastered another language before entering the program may apply up to 12 hours of language study toward the satisfaction of the 45-hour requirement in linguistics. Students who come to the program having already demonstrated competency in a second language (e.g., native speakers of some language other than English) may apply up to 12 hours of further language study to the 45-hour requirement, or may take an additional 12 hours of approved linguistics electives. The language requirement can be waived on a case by case basis for students who (in addition to the linguistics major) complete a major or minor in certain language-related areas, such as computer science, psychology, philosophy, or English. (0-12 hours)
- d. Electives: From 9 to 24 hours of electives will be required to meet the 45-hour requirement for the program. A minimum of two elective courses must be drawn from courses whose primary focus is linguistic. These include, for example, the series of 400-level LIN courses and the series of linguistics courses offered by the English Department (specifically, ENG 330, ENG 331, ENG 333, ENG 334, ENG 335, and ENG 336).

*Scheduling:* In the ideal case, students should enroll in the program before registering for the second semester of the sophomore year.

Once admitted to the major, the student should take LIN 311, LIN 312,

LIN 313, LIN 314, and an approved statistics course (MAT 120D or PSY 201D) at the earliest opportunity. The research methods course (LIN 390) should be taken during the spring of the student's junior year.

During the fall of the senior year, the student should enroll for thesis hours. At the end of the fall semester of the senior year, the student must submit a research-based thesis to the linguistics program faculty. It is intended that this paper will be available as a credential when students are applying to graduate school. Early in the spring semester of the student's junior year, the student should select a thesis advisor with whom to work on the thesis project. Faculty members from all relevant departments may serve as thesis advisors, subject to the approval of the Linguistics Council.

Students enrolled in the program are expected to maintain regular contact with the program faculty and to participate in or attend various program events (guest lectures, colloquia, etc.) that will be scheduled from time to time.

*Electives:* Electives may be drawn from courses offered by a wide variety of other departments and programs. The student must consult with his or her advisor in composing a coherent set of electives. Special care should be taken in this matter. The elective courses chosen should support the thesis work the student expects to do. There should be a clear relation between the selected electives and some identifiable theme within the study of language. Possible areas of focus include (but are not limited to): language and human development, language disorders, psychology of language, speech and phonetics, signed language, grammar of English or linguistic perspectives on English or a foreign language, syntax, language change, language and evolution, computational linguistics, philosophy of language, sociolinguistics, etc.

### *Minor in Linguistics*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor in linguistics: 18.

A minor in linguistics consists of LIN 185J, at least three courses from LIN 311-314, and two electives. Electives may be drawn from the list of 400-level LIN courses or the list of approved linguistics electives in English and other programs. Students may also use one course in the series LIN 111I-202 as an elective toward the minor in linguistics.

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### **LIN 111I Language Learning and Bilingualism**

Most of the world's people have a daily need to produce and understand one or more languages beyond their native language. In short, most of the people in the world are to some degree bilingual. This course reviews some of the many aspects of bilingualism. These include the effects that a first language exerts on second and later languages, the psychology and neurology of bilingualism, and the social and political aspects of being bilingual. Cr 3.

### **LIN 112E Analyzing Language**

In this course students will become aware of their tacit knowledge of the rules and principles that guide language usage. They will learn how to formulate these rules and how to test and evaluate claims about the form that the rules take. Students will thereby develop skills in analysis and argumentation that are applicable in many areas of study. The course will concentrate on the analysis of sentence structure, but will also deal with the sound system, word structure, meaning, and language acquisition. Cr 3.

### **LIN 113J Origins of Language**

The course provides a rigorous examination of

two views about how humans developed the ability to use language. One view is that language was deliberately invented and relies on human capacities whose original "purpose" had nothing to do with language. Another is that language ability depends upon specific biological traits that emerged because of their contribution to language. This debate leads to a variety of questions about the nature of language, the functions it serves, and the way children acquire it. The course draws on many kinds of evidence, from fossil skulls to patterns of change in modern languages over the last several hundred years. Cr 3.

### **LIN 121 Beginning American Sign Language I**

This is a beginning course in American Sign Language (ASL). It will include extensive study of receptive and expressive use of ASL, as well as an introductory discussion of Deaf culture. Course content covers basic principles in the use of sign, sign vocabulary, and aspects of the grammar of ASL. In addition to class sessions, students will use written and videotape materials out of class. Cr 3.

**LIN 122 Beginning American Sign Language II**

This is the second beginning course in American Sign Language (ASL). Prerequisite: LIN 121 or equivalent. Cr 3.

**LIN 185J Language, Mind, and Society**

This course approaches language as a biological and psychological phenomenon central to an adequate understanding of human nature. It deals with linguistic questions concerning the grammars of natural languages and how these may vary across cultures and across time, but also with questions about how the human mind and brain both provide for and constrain linguistic ability. The course also addresses questions about how language develops in the child, how it deteriorates under the influence of disease and injury, how it evolved in the history of the species, and what functions it plays in human life. The course does not assume any background in linguistics or foreign languages. Cr 3.

**LIN 201J Child Language**

An introductory overview of the phenomena of communication and language development. The course deals with the process by which children become able to understand, to speak, and to use effectively their native language. It touches on the development of the sound system, word learning, the emergence of sentence structure, and the development of communicative competence. Cr 3.

**LIN 202I Languages of the World**

An introductory overview of the world's languages. This course is intended to convey a sense of the diversity of human language and exposes students to some of the great variety of sound systems, word-building systems, sentence patterns and communicative practices that are found across the thousands of linguistic communities in the world today. The course looks at the deep commonalities that unite diverse linguistic systems. The historical relationship and sociopolitical status of languages are also discussed. Cr 3.

**LIN 221 Intermediate American Sign Language I**

This is the third in a four-course sequence in American Sign Language (ASL). The course includes extensive work on receptive and expressive use of ASL. It emphasizes the grammatical structure of ASL, particularly its morphology, syntax, and semantics. In addition to class sessions, students will use written and videotape materials out of class. Prerequisite: LIN 122 or equivalent. Cr 3.

**LIN 222 Intermediate American Sign Language II**

Continuation of LIN 221. Prerequisite: LIN 221 or equivalent. Cr 3.

**LIN 311 Phonetics**

An introduction to speech sounds, covering the basic elements of articulatory and acoustic phonetics and of speech perception. The course also reviews the process by which infants come to be competent at perceiving and producing the sounds of their native language. Topics discussed will also include the contributions of selected brain regions to the use of sounds and the cross-linguistic variation in sounds. Prerequisite: LIN 185J. Cr 3.

**LIN 312 Phonology and Morphology**

An introduction to the derivation of words in natural language. The course covers the sound system, the processes by which words are dynamically derived from other words, and the processes by which words are inflected to mark the roles they assume in sentences. Particular attention is also given to the great variety of word-building systems that occur in the world's languages and to the means by which children acquire the phonological and morphological processes of their native language. Prerequisite: LIN 185J. Cr 3.

**LIN 313 Syntax**

This is an introduction to the role of sentences and sentence structure in natural language. The course addresses the questions: What makes a particular string of words usable as a sentence? Why are some strings acceptable while others are not? What is the nature of the knowledge humans bring to the process of forming and interpreting sentences? How is this knowledge acquired? Why is the ability to produce and understand well-formed sentences disrupted by injury to specific brain regions? How and why do the sentence patterns that are typical of a language community change over time? Prerequisite: LIN 185J. Cr 3.

**LIN 314 Semantics**

An introduction to the study of meaning in natural language. The course explores questions about the nature of meanings and how they are related to minds. Another concern is the relation between words and sentences, on one hand, and the objects, events and relations we experience in the world, on the other. How are words linked to things in the world? How do words refer or describe? What is it for a sentence to be true? Prerequisite: LIN 185J. Cr 3.

**LIN 390 Introduction to Language Research**

An introduction to basic aspects of the experimental study of human linguistic abilities. This will include coverage of the identification of viable research questions, literature reviews, special considerations for materials preparation for language experiments, research design, sampling, control of artifacts, data handling, analysis, some special statistical considerations,

and reporting conventions. Students will also be introduced to various computer resources relevant to these matters. Prerequisites: LIN 185J and one of the following: PSY 201D (Statistics in Psychology), MAT 120D (Introduction to Statistics); or an equivalent course. Cr 3.

**LIN 421 First Language Acquisition: Syntax**

A detailed examination of the process of acquiring language in young children that concentrates on sentence structure. The course considers how children extract from the speech they hear the information that is critical to their developing ability to form sentences. It reviews questions about the nature of grammar and how grammars might be structured to facilitate language acquisition, and how various kinds of early experience do and do not contribute to acquisition. Prerequisites: LIN 185J, LIN 313. Cr 3.

**LIN 422 A Cognitive Perspective on Syntax**

An introduction to the activities of the brain and mind that listeners and readers use to understand sentences, as well as to the mental

representations that these processes construct. The course considers how the words of speech and writing are integrated into coherent phrases and sentences, and how listeners use the structure of sentences to help determine their interpretation. The course considers how various common sentence forms ease or disrupt the processes of comprehension. Prerequisites: LIN 185J, LIN313. Cr 3.

**LIN 498 Thesis**

Students enrolled in the self-designed major in linguistics are required to write a research-based senior thesis. The topic for this project must be selected in consultation with the student's advisor and approved by the Linguistics Council. Students must give a presentation and defense of their projects upon completion. The finished thesis must be approved by the Linguistics Council and should be completed by the end of the fall semester of the student's senior year. This course may be taken for credit twice. Prerequisites: LIN 185J, LIN 311-314, approval of project proposal. Cr 3.

## Social Science

*Coordinator:* Dana McDaniel, 65 Exeter Street, Portland

*Steering Committee: Faculty Members:* Anspach, Bjelic, Hillard, Hodges, Padula, West, Woshinsky; *Student Members:* Allison Chiodo, Timothy Paschke

The group contract major in social science is a multidisciplinary program consisting of the following eight disciplines: criminology, economics, geography-anthropology, history, linguistics, political science, sociology, and women's studies. Each student must take a minimum of 51 credits to complete the major.

Students choose between Options I and II below. The following two requirements apply to all students, regardless of Option: 1.) Every student's social science curriculum must include at least one of the following social science methods courses: CRM 220, ANT 103, HTY 200, LIN 390, POS 103, SOC 301; 2.) All students must take a 3-credit capstone course, SDM 401, in addition to the requirements specified under their Option.

### Option I

Students select one of the eight disciplines as a concentration. They must complete 21-23 credits (usually seven courses) in that discipline, as specified below.

<i>Discipline</i>	<i>Requirements for Concentration</i>
Criminology	CRM 215J, CRM 216, CRM 220, CRM 310, CRM 311, CRM 317, CRM 334
Economics	ECO 201, ECO 202, ECO 301, and four 3-credit courses that are 300-level or above
Geography-Anthropology	two courses from GEO 101J, GEO 102K, GEO 201J; two courses from ANT 101J, ANT 102K, ANT 103; and three 3-credit GEO and/or ANT courses that are 200-level or above
History	seven 3-credit HTY courses, at least four of which are 200-level or above
Linguistics	LIN 185J, either LIN 113J or LIN 201J, and five 3-credit LIN courses that are 300-level or above
Political Science	POS 101J, POS 102J, three courses from the five POS areas - no more than one per area (see Political Science section in catalog), and six additional POS credits
Sociology	SOC 100J, SOC 210, SOC 300, SOC 301, SOC 312, and two additional 3-credit SOC courses
Women's Studies	WST 280, WST 380, WST 390, WST 235, WST 245, WST 255, WST 265; if any of the latter four courses are not offered, they may be replaced by WST 220, WST 320

Students choosing Option I also take 27 credits outside of their concentration. The 27 credits must be divided equally among three of the remaining seven disciplines (three courses in each), and at least nine of the 27 credits must be upper division level (200 or above). Note that these courses are not restricted to the courses listed above as requirements for the concentrations.

### Option II

Students select one interdisciplinary *topic* within the social sciences as a concentration. In consultation with their advisor, they design a curriculum that consists of at least 30 credits (10 courses) on their topic from at least two (but no more than six) of the eight disciplines. At least 18 of the 30 credits must be above the introductory level.

Students choosing Option II also take 18 credits in two disciplines not included in their concentration – three courses in each discipline. At least six of the 18 credits must be upper division level (200 or above).



## Capstone Course

All social science majors (regardless of Option) must take SDM 401 in their senior year or during the second semester of their junior year. The purpose of this course is to bring together the knowledge and experience students have acquired through the major, and to allow them to apply that knowledge.

### Notes:

1. University policy states that there can be no more than one overlap between the courses taken to fulfill the Core curriculum requirements and the courses that count toward the student's major. "Overlap" is defined in terms of the three-letter prefix (e.g., ENG, SOC, WST); that is, a student may take only one course toward the Core that has the prefix of the student's major. (The overlapping Core courses may itself also count toward the major or it may just share a prefix with the major.)

In the case of the social science major, which is multidisciplinary, the overlap policy is interpreted as follows. A student may take only one Core course with a prefix that corresponds to the disciplines included in that student's social science major. For example, a student with Option I whose major consists of courses in sociology, women's studies, history, and political science could count toward the Core only one course that had a SOC, WST, HTY, or POS prefix; Core courses with prefixes corresponding to other social science disciplines (e.g., LIN, ECO) would not be overlaps for this student.

2. Students who intend to teach social studies at the secondary level should consult with their advisor to design a curriculum that includes the specific social science courses required by the state of Maine for certification.

3. Students who have already taken more than nine credits of 100-level courses in the social sciences and who, due to prerequisites, are required to take more 100-level courses should consider consulting with their advisor about possible alternative arrangements.

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### SDM 401 Senior Seminar in Social Science

The capstone to the major and required for the degree, this seminar explores the nature and the craft of social science. The topic will vary but will always be a particular theme or set of issues that span various social science disciplines, such as Competing Methodologies in Social Science, Ethnohistory, United States

Studies, etc. Students are expected, through discussion and writing, to apply the knowledge and skills acquired in previous social science courses. Prerequisite: The course is open only to social science majors or students majoring in one of the eight disciplines that make up the social science major. Students must also be seniors or second semester juniors. Cr 3.

## Women's Studies

*Director:* Diana E. Long, 94 Bedford Street, Portland

*Women's Studies Council:* Cameron, Cole, Eagan, Gish, Holden, Kissen, Laz, Lockridge, Long, MacPherson, McCall, Rosenthal, Sadoff, Tizon, Wininger

For information regarding the self-designed major in women's studies, please see the section on women's studies.

# Art

*Chair of the Department:* Michael Shaughnessy, 6 Robie Andrews Hall, Gorham  
*Professors:* Bearce, Franklin, Ubans; *Associate Professors:* Burk, Cassidy, Hewitt, Marasco, Moore, Rakovan, Schiferl, Shaughnessy; *Assistant Professors:* Fullam, Meyers, Reed

The Department of Art offers degree concentrations in studio arts, art history and art education. The following four-year degree programs are offered: bachelor of fine art (B.F.A.) with concentrations in ceramics, drawing, painting, photography, printmaking, and sculpture. A minor in art education is available to BFA candidates who wish to teach art. The bachelor of art (B.A.) in studio art combines a liberal arts education with emphasis on the visual arts. A bachelor of art (B.A.) in art with a concentration in art history is also offered.

The Department prides itself on its ability to give students a rigorous studio experience, an historical understanding of the complexity of art practices, and the critical skills needed to produce informed visual artists. Our goal is to graduate artists and art professionals who possess a thorough grounding in their field (both practical and theoretical), who honor the creative process, and who have a strong basis for articulating, writing, and criticizing works of art. The Department's goals are not tied to a specific stylistic look or approach to art making or practice, but instead emphasize the students' ability to think creatively, to include their ownpoint of view, and to defend their choices with an informed voice.

## Admission Requirements

Students who apply for admission to the Department of Art should observe the following procedure. Formal application should be made to the director of Admissions, Admissions Office. Current degree candidates enrolled at the University, who transfer into the Department of Art from another discipline, must obtain a change of major form and submit this form with a current transcript to the chair of the Department of Art.

A student is then a candidate for matriculation in the Department of Art. All candidates must complete the art foundation, consisting of Fundamental Design I & II, Fundamental Drawing I & II, Art History: Prehistoric to Medieval, and Art History: Renaissance to Modern before matriculating as an art major in the Department of Art.

In order to become a full-time matriculated art major in one of the two degree programs, a portfolio of original works must be submitted to the Department for evaluation. Portfolios are not required for the art history concentration. This must be done during or no later than one semester beyond completion of the art foundation courses. If the student completed the art foundation at another institution a portfolio must be submitted at the next scheduled opportunity and no later than the second semester at USM. The portfolio should consist of no more than 12 works within specific categories.

Each work submitted is to be labeled on the back with the student's name and category. No slides, glass, three-dimensional work, or work larger than 36" x 36" (including matting) will be accepted. Presentation should be considered for the joint purpose of appearance and protection. The Department cannot accept responsibility for damage or loss to the work. All three-dimensional work must be represented by a minimum of two photographs of each work, matted or in plastic sleeves. The categories and numbers of work for each category are as follows:

*Two-dimensional works* (3 pieces) should be taken from and/or exhibit skills in the visual design of the flat page.

The *three-dimensional category* (2 pieces) should exhibit (in photographs) capabilities in the physical development and articulation of form and space.

The *drawing category* (3 pieces) should contain works of any medium exhibiting skills and concepts of drawing.

The *self-portrait* (1 piece) should be executed from life and may be in any medium but should be a representational depiction rendered by hand.

*Open submissions* (3 pieces) may be any works in any medium as long as they conform to the overall guidelines of this review.

Portfolios that do not adhere to the established procedures will not be accepted for review.

Art candidates whose foundation portfolios are not accepted are required to meet with their advisor and one additional full-time faculty member to review and discuss their plans for re-submission. Portfolios that are not accepted may be re-submitted two additional times. Failure at the conclusion of these three times will result in denial of acceptance as an Art Department degree candidate.

Portfolio deadlines and application forms may be obtained from the Department of Art. Portfolios are reviewed once each semester. Final notification of a decision will come from the Department of Art approximately two weeks after the portfolios have been evaluated.

Students already enrolled in the University who wish to change their major to art also must follow the departmental admission procedures concerning submission of portfolio, as described above.

Students are required to participate in the Department's Junior Review during the fall semester in which they obtain junior status (53 credits). A workshop in procedures for exhibiting art work, and a workshop in photographing artwork are also required.

Only students who have completed the art foundation and who have earned 60 credits or more may enroll for Independent Study courses. Grades of C- or better must be earned to satisfy a major or minor requirement.

Academic credit for summer workshops is available with Haastack Mountain School of Crafts in Deer Isle, Maine. Contact the Art Department or Summer Session for more information.

### *Bachelor of Fine Arts (B.F.A.) Degree in Studio Arts*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 87.

There are degree concentrations in ceramics, drawing, painting, photography, printmaking, and sculpture.

#### Art Foundation Sequence (18 credits)

ART	111G	Art History: Prehistory to Medieval
ART	112G	Art History: Renaissance to Modern
ART	141F	Fundamental Design I (2-D)
ART	142	Fundamental Design II (3-D)
ART	151F	Fundamental Drawing I
ART	152	Fundamental Drawing II

#### Upper Level Foundation Requirements (6 credits)

ART	241	Design
ART	251	Drawing

#### Upper Level Art History Requirements (9 credits\*)

ARH		200- or 300-level Art History Elective
ARH		200- or 300-level Art History Elective
ARH	411	Philosophy of Art, (PHI 220 may substitute)

#### Studio Requirements (9 credits)

Do three of five 200-level courses **other than your concentration**

ART	231	Ceramics
ART	261	Painting
ART	271	Photography
ART	281	Printmaking
ART	291	Sculpture

#### Concentration Requirements (21 credits)

ART	2XX	Introductory Studio
ART	3X1	Intermediate Studio I
ART	3X2	Intermediate Studio II
ART	4X1	Advanced Studio I
ART	4X2	Advanced Studio II
ART	XXX	Required Elective in concentration**
ART	401	Senior Seminar

Studio Courses (Elective & Required) (24 credits\*)

Any 200, 300, or 400-level studio courses.  
ART Studio Electives

\*See specific requirements and recommendations in your area of concentration.

\*\*Can be met by one of the following: ART 407 Independent Study, ART 408 Advanced Problems, or approved course within discipline, including summer course offerings, Haystack School of Crafts courses, or ART 412 Topics in Studio Arts.

Students are required to submit a portfolio for acceptance to the Department prior to enrolling in any 200-level or above studio courses. Completion of the Junior Review and the Senior Exhibition are also required.

### *Concentration Requirements and/or Recommended Courses*

Each concentration may have additional requirements of course recommendations as follows:

*Ceramics concentration:* ART 351 Intermediate Drawing I and ART 352 Intermediate Drawing II are both required.

*Drawing concentration:* Recommended upper-level art history courses are ARH 317 Contemporary Art; ARH 316 Modern Art and/or ARH 217 Asian Art; or any ARH non-Western Art.

*Painting concentration:* ART 351 Intermediate Drawing I and ART 352 Intermediate Drawing II are both required; recommended upper-level art history courses are ARH 214 Renaissance Art or ARH 212 Classical Art; and ARH 316 Modern Art or ARH 315 Nineteenth Century European Art.

*Photography concentration:* Recommended studio course is ART 291 Sculpture; recommended upper-level art history is ARH 316 Modern Art.

*Printmaking concentration:* No additional requirements and/or recommendations.

*Sculpture concentration:* Recommended studio course is ART 271 Photography; recommended upper-level art history is ARH 217 Asian Art or any ARH non-western Art; and ARH 317 Contemporary Art.

*Note:* ART 249 2D, 3D, Figure Study (offered summers only) also satisfies the required elective in concentration for sculpture.

In order to receive a B.F.A. degree in art from USM, a student transferring to USM must complete at least two 3-credit studio courses in their area of concentration and one 3-credit art history course at USM.

### *Bachelor of Fine Arts with a Concentration in Art Education*

The bachelor of fine arts with a concentration in art education offers an in-depth studio experience as well as a professional course of study in art education.

The minimum number of credits (exclusive of the University's Core curriculum) required for this degree is 90. The 90 credits include 9 hours of electives in art, art history, and design. Applicants wishing to enter this program with an existing B.F.A. or M.F.A. degree must obtain the written permission of the chair of the Art Department. It is recommended that students majoring in art education take COR 119F, Illuminated Autobiography, as part of the University's Core requirements.

#### Art Foundation Sequence (18 credits)

ART	141F	Design I
ART	151F	Drawing I
ART	142	Design II
ART	152	Drawing II
ARH	111G	Prehistory to Medieval
ARH	112G	Renaissance through 20th Century

Students are required to submit a portfolio for acceptance to the Department prior to enrolling in any 200-level or above studio courses.

#### Upper Level Art History Requirements (6 credits)

ARH		200- or 300-level Art History Elective
ARH	411	Philosophy of Art (PHI 220 may substitute)

#### Art Studio Requirements (21 credits)

ART	231	Ceramics
ART	241	Design

ART	251	Drawing
ART	261	Painting
ART	271	Photography
ART	281	Printmaking
ART	291	Sculpture

Art Studio Concentration Requirements (9 credits)

This may be taken in either drawing, ceramics, painting, photography, printmaking, or sculpture.

ART	3XX	Intermediate I
ART	3XX	Intermediate II
ART	4XX	Advanced I

Professional Education Requirements (27 credits excluding HRD 333J)

EDU	200	Education in the United States
or		
EDU	210	Theoretical Foundations of Learning
HRD	333J	Human Growth and Development**
AED	221	Practicum in Art Education
AED	321	Principles and Procedures in Art Education*
AED	421	Seminar in Art Education*
EDU	324	Student Teaching – Elementary Level*
or		
EDU	324	Student Teaching – Secondary Level*
AED	424	Exceptionality in Art Education*

Interview for candidacy and written permission of the instructor is required prior to student teaching for continuation within the program.

\*A 2.5 minimum grade point average (GPA) must be maintained in order to register for AED 321, EDU 324, AED 421, AED 424, and in order to graduate from the program.

\*\*HRD 333J counts as a University Core requirement and a Professional Education requirement.

*Bachelor of Arts (B.A.)*

The minimum number of credits (exclusive of the University's Core curriculum and electives) required for the major: 45.

Art Foundation (18 credits)

ARH	111G	Art History: Prehistoric to Medieval
ARH	112G	Art History: Renaissance to Modern
ART	141F	Fundamental Design I (2-D)
ART	142	Fundamental Design II (3-D)
ART	151F	Fundamental Drawing I
ART	152	Fundamental Drawing II

Art History Requirements (9 credits)

ARH	411	Philosophy of Art (may substitute PHI 220)
ARH	Elective	
ARH	Elective	

Studio Art Requirement (18 credits, all electives)

Electives (41 credits)

No more than 60 credit hours with ART designation may be used to fulfill 120 credit-hours degree requirement.

*B.A. in Art with a Concentration in Art History*

In order to become a matriculated art major, the student must apply for admission to the program during the semester the foundation courses are being completed or after their completion. No portfolio is required. The student may obtain the appropriate form in the Art Department Office.

To receive credit toward the major, the student must maintain at least a 2.5 average in art history courses. Students are encouraged to acquire a reading knowledge of a foreign language, preferably French or German.

The minimum number of credits required for the major: 45.

Art Foundation (18 credits)

ARH	111G	Art History: Prehistoric to Medieval
ARH	112G	Art History: Renaissance to Modern
ART	141F	Fundamental Design I (2-D)

ART	142	Fundamental Design II (3-D)
ART	151F	Fundamental Drawing I
ART	152	Fundamental Drawing II
Upper Level Requirements (27 credits)		
ARH	411	Philosophy of Art (or PHI 220)
ARH	212, 213, or 214	Classical, Medieval, or Renaissance
ARH	216, 315, 316, or 317	19th- or 20th-Century Western Art
ARH	210 or 217	Non-Western Art
ARH	410	Seminar in Art History

(May substitute ARH 412 Topics in Art History with permission of the Art Department Chair.)

Art History elective (upper level course) (3 credits)

Approved upper level electives from one or more of the following areas: Art History, History, Anthropology, Literature, Classics. The student should consult with the art history advisor to select appropriate courses. (9 credits)

### *Minor in Art History*

The minimum number of art history credits (exclusive of the University's Core curriculum) required for the minor: 21.

The minor consists of ARH 111G; ARH 112G; and ARH 411, and 12 credits of art history courses (noted by ARH prefix) above the 100 level including: a.) at least one of the following areas: Classical, Medieval, Renaissance; and b.) at least one in either of the following areas: 19th-century Western art, 20th-century Western art.

### **Course Fees**

A course fee is assessed in ceramics, drawing, painting, photography, printmaking, and sculpture courses.

#### **ART 101G Approaches to Art**

Selected experiences using original works, lecture, panel discussion, slides, films, and other means to confront the student with the significance of the visual arts in human history. The aim of the course is to involve students in direct experiences affecting their own perception of visual form. Cr 3.

#### **ART 416 Exhibitions & Gallery Management**

Problems in the operation of an art gallery. Various exhibition, installation and handling techniques; design and distribution of promotional material. Practical experience in connection with the operation of the USM Art Gallery. Prerequisite: art foundation courses. Cr 3.

#### **ARH 111G Art History: Prehistoric to Medieval**

Examination and discussion of the painting, sculpture, and architecture from prehistoric cultures to the late Middle Ages. The course emphasizes the relationship of the visual arts to social, political, religious, and cultural trends, and introduces students to various methods of art-historical interpretation. Prerequisite: none, but preference given candidates for matriculation in the Department of Art, or those with permission of the instructor. Cr 3.

#### **ARH 112G Art History: Renaissance to Modern**

Examination and discussion of the painting, sculpture, and architecture from the Renaissance to the present. The course emphasizes the relationship of the visual arts to social, political, religious, and cultural trends and introduces students to various methods of art-historical interpretation. Prerequisite: none, but preference given candidates for matriculation in the Department of Art, or those with permission of the instructor. Cr 3.

#### **ARH 210G Art History: Cross-Cultural Perspectives**

The course covers global issues in art history. Major topic areas include a) how art conveys cultural values and biases, b) why foreign styles are adopted, c) why different values produce different forms. Prerequisite: ENG 100C. Cr 3.

#### **ARH 211G Gender Identity and Modern Art**

From the Victorian age to the current day, some communities of artists and critics have defined themselves in opposition to the dominant norms of maleness and heterosexuality. This course looks at two identities invented by the Victorians—"feminist" and "homosexual"—and traces their expression in the visual arts. Historical study forms the basis for the course's primary focus on the art and criticism generated by the modern feminist and gay movements. Cr 3.

### *Art History*

**ARH 212 Classical Art**

A survey of ancient art and architecture with special emphasis on the key monuments of Greek and Roman art and their influence on later artistic periods. Prerequisite: ARH 111G. Cr 3.

**ARH 213 Medieval Art**

A survey of the various medieval styles from the Early Christian through the Gothic period with a special section on Islamic art. The relationship of culture to art will be examined for architecture, painting and sculpture. Prerequisite: ARH 111G. Cr 3.

**ARH 214 Renaissance Art**

An examination of the art and architecture of the fifteenth and sixteenth centuries both north and south of the Alps. Emphasis will be given to the cultural traditions, historical events and theoretical foundations that contributed to the development of Renaissance art. Prerequisite: ARH 112G. Cr 3.

**ARH 215 Seventeenth- and Eighteenth-Century Art**

The course will survey the Baroque and Rococo movements in painting, sculpture, and architecture. The impact of the Academies and academic art and the Enlightenment will be given special attention. Prerequisite: ARH 112G. Cr 3.

**ARH 216 American Art (Seventeenth through Nineteenth Centuries)**

Survey of painting, sculpture, and architecture from Colonial times to 1900 in the United States with a focus on works from the New England area. These works will be examined in relation to historical events and cultural ideals. Field trips to local museums and architectural sites. Prerequisite: none. Cr 3.

**ARH 217 Asian Art**

A survey of some major styles in Asian art (India, China, Japan). The course emphasizes the cultural and religious factors that influenced the art. Cr 3.

**ARH 218 Women in Art**

A focus on women in the arts; their images, ideals, dialogues, politics, and history through contemporary trends. The course will be enhanced with slides, films, videotapes, papers, panels and discussions. Prerequisite: permission of instructor. Cr 3.

**ARH 273 Film as Image and Idea**

An approach to the Appreciation of motion pictures and allied arts through the understanding and analysis of the context, range, and resources of film. Course includes the development of motion pictures and principles of film evaluation. Prerequisite: permission of the instructor. Cr 3.

**ARH 315 Nineteenth-Century European Art**

Examination and discussion of European painting, sculpture, and architecture from neoclassicism through post-impressionism (1790-1900). The course will focus on the relationship between the visual arts and the political, social, and aesthetic revolutions of the century. Cr 3.

**ARH 316 Modern Art**

A continuation of ARH 315 covering the period from 1900-1950 and including the growth and development of the modern "isms." Prerequisite: ARH 112G. Cr 3.

**ARH 317 Contemporary Art (1950-Present)**

An examination and discussion of development in the visual arts since 1950. Prerequisite: ARH 112G. Cr 3.

**ARH 410 Seminar in Art History** Cr 3.**ARH 411 Philosophy of Art**

An investigation into the theories of art and beauty found in the writings of philosophers, painters, writers, and critics which form the basis of understanding of the fine arts. Readings and discussion of writers from ancient to modern times. Prerequisite: ARH 112G. Cr 3.

**ARH 412 Topics in Art History**

A seminar on a selected topic in art history that will be the focus of in-depth research and discussion. Prerequisite: permission of the instructor. Cr 3.

**ARH 418 Independent Study in Art History**

An opportunity for the student who has demonstrated competence in a specific area of study to work independently with scheduled tutoring from a faculty member of the student's choice. Prerequisites: permission of instructor and Art Department chair. Cr 1 to 6.

*Studio Art***ART 141F Fundamental Design I (2-D)**

A studio introduction to the basic elements of two-dimensional and color relationships. Cr 3.

**ART 142 Fundamental Design II (3-D)**

A studio introduction to the basic elements of three-dimensional relationships and "the aggregate," an extended project interrelating the two- and three-dimensional. Prerequisite: ART 141F. Cr 3.

### **ART 151F Fundamental Drawing I**

A studio introduction to drawing, including the basic elements of line, tone, design, and representation. Cr 3.

### **ART 152 Fundamental Drawing II**

A continued introduction to drawing, using the basic graphic elements studied in Drawing I. Cr 3.

### **ART 231 Ceramics**

An introduction to methods and processes of clay forming, including modeling, press molding, hand-building, and the potter's wheel. Emphasis on form and texture, with aspects of glaze composition and firing procedures. Prerequisite: art core courses. Cr 3.

### **ART 241 Design**

An interdisciplinary course which considers notions of time, movement, and space in both two and three dimensions. Students will investigate the ways in which design strategies influence meaning. Alternative approaches, including community-based and collaborative projects, will be explored. Prerequisite: art foundation. Cr 3.

### **ART 249 2-D and 3-D Figure Study**

A studio course in the study of the human figure, including drawing, modelling, and readings in artistic anatomy, supplemented by historical study of figurative art. (Offered summers only.) Prerequisite: art foundation or permission of instructor. Cr 3.

### **ART 251 Drawing**

Extensive combining of media. Stress on role of images, both object and model. Prerequisite: ART 152. Cr 3.

### **ART 259 Landscape Drawing**

This course will concentrate on drawing the landscape at various Maine locations. Assigned problems will focus on aspects of the following: pictorial composition and design, analysis of landscape forms and structures, and methods for creating the illusion of outdoor light and space. A variety of both wet and dry media will be used. The course will include daily critiques, illustrated talks using original works as well as slides of masters, and museum visits. (Offered summers only.) Prerequisite: art foundation or permission of instructor. Cr 3.

### **ART 261 Painting**

An introduction to basic aspects of the painting process as related to visual perception and technique. Prerequisite: art core courses. Cr 3.

### **ART 269 Landscape Painting**

An investigation of the painting process as related to visual perception of the natural environment. This course will take place outdoors

at Wolfe Neck Farm. (Offered summers only.) Prerequisite: art foundation or permission of instructor. Cr 3.

### **ART 271 Photography**

Photography as a creative medium. Introduction to basic skills in the use of the camera and dark-room equipment. Investigation and practice in the fundamental techniques and processes of black and white photography as an art form. Prerequisite: art core courses. Cr 3.

### **ART 281 Printmaking**

Introduction to the rudimentary materials and methods of basic printmaking media such as intaglio, lithography, relief, and serigraphy. Prerequisite: art core courses. Cr 3.

### **ART 291 Sculpture**

A foundation course directed towards the developing awareness of basic elements of sculptural form and the discipline of making objects. Prerequisite: art core courses. Cr 3.

### **ART 331/332 Intermediate Ceramics**

Application of design principles in production of ceramicware with a concentration on advanced problems in wheel-thrown forms and handbuilding sculptures. Prerequisite: ART 231. Cr 3/3.

### **ART 351/352 Intermediate Drawing**

Continued drawing with emphasis on independent direction. Prerequisite: ART 251. Cr 3/3.

### **ART 361/362 Intermediate Painting**

Continued investigation of the painting process using both assigned problems and arrangements of the student's own invention. Use of a variety of media. Prerequisite: ART 261. Cr 3/3.

### **ART 363 Painting/Watercolor**

Watercolor, wash, dry-brush, ink and wash, gouache, and other techniques in watermedia. Emphasis on individual concepts and personal expression. Prerequisite: ART 261. Cr 3.

### **ART 365/366 Intermediate Watercolor**

Continuation of Painting/Watercolor with emphasis on personal expression. Prerequisite: ART 363. Cr 3/3.

### **ART 371/372 Intermediate Photography**

Exploration of concepts and techniques of photography with emphasis on individual forms of expression. Taught alternate semesters as: Color and Black & White Photography. Prerequisite: ART 271. Cr 3/3.

### **ART 381/382 Intermediate Printmaking**

Application of the basic knowledge of printmaking as it concerns image-making, with an emphasis on at least two of the media studied in ART 281. Prerequisite: ART 281. Cr 3/3.



**ART 391/392 Intermediate Sculpture**

The theory and practice of sculptural composition using a variety of techniques with traditional and new materials. Prerequisite: ART 291. Cr 3/3.

**ART 401 Senior Seminar in Studio Art**

Designed for B.F.A. senior status students, this course will provide a cross-disciplinary critique of the student's project and will culminate in a senior exhibition. Questions regarding current theoretical practices and strategies will be examined through readings, slides, and visiting artist lectures in order to provide a basis for understanding the student's artistic choices. Prerequisite: senior status/B.F.A. degree students. Cr 3.

**ART 407 Advanced Problems in Art**

An opportunity for the student to do advanced work in the discipline of his/her choice, culminating in a related project. Prerequisites: permission of instructor and Art Department chair. Cr 1 to 6.

**ART 408 Independent Study in Art**

An opportunity for the student who has demonstrated competence in a specific area of study to work independently with scheduled tutoring from a faculty member of the student's choice. Prerequisites: permission of instructor and Art Department chair. Cr 1 to 6.

**ART 412 Topics in Studio Art**

A course on a selected topic in the studio arts. To be offered at least once each year. Prerequisite: permission of the instructor. Cr 3.

**ART 431/432 Advanced Ceramics**

Investigation and realization of advanced

ceramics projects with an emphasis on personal development and professional attitudes. Prerequisites: ART 331 and 332. Cr 3/3.

**ART 451/452 Advanced Drawing**

Making personal and complete drawings and series of drawings. Emphasis on individual concepts and personal expression. Prerequisites: ART 351 and 352. Cr 3/3.

**ART 461/462 Advanced Painting**

Continuation of Intermediate Painting. Emphasis on individual concepts and personal expression. Prerequisites: ART 361 and 362. Cr 3/3.

**ART 471/472 Advanced Photography**

Investigation of advanced photography projects with emphasis on personal expression and individual concepts of image-making. Prerequisites: ART 371 and 372. Cr 3/3.

**ART 481/482 Advanced Printmaking**

Study and realization of personally developed imagery through advanced investigation of preferred printmaking media. Prerequisite: ART 381 or ART 382. Cr 3/3.

**ART 491/492 Advanced Sculpture**

Continuation of Intermediate Sculpture with emphasis on the pursuit of personal imagery. Prerequisites: ART 391 and 392. Cr 3/3.

**ART Independent Study Term**

An opportunity for the student who has demonstrated competence and exceptional independence in a specific area of study to work with scheduled supervision from a faculty member of the student's choice. Prerequisites: permission of the Department of Art and the Dean of the College. Cr 12-15.

*Art Education***AED 221 Practicum in Art Education**

An introduction to art education theories and processes through readings, writings, discussion, observation, and clinical experiences with children. The examination of the relationship between art-making and learning is relevant to prospective art and classroom teachers. Prerequisites: sophomore standing or above and art core courses. Cr 3.

**AED 321 Principles and Procedures in Art Education**

History and philosophy of art education, theories of child art, relationship of goals to art education strategies, development of a workable set of beliefs about art education through readings, writings, discussion, observation, interview, and field experiences. Intended for the art education major. Prerequisites: AED 221 and art core courses. Cr 3.

**AED 407 Advanced Problems in Art Education**

An opportunity for the student to do advanced work in art education related problems. A total of 6 credits may be taken. Prerequisites: completion of the sequence of courses in the related discipline and permission of the instructor and Art Department chair. Cr 1 to 6.

**AED 412 Topics in Art Education**

A course on a selected topic in art education to be offered at least once a year. Prerequisite: permission of the instructor. Cr 3.

**AED 421 Seminar in Art Education**

This seminar examines art curriculum design and evaluation. Critical issues in art education for the emerging art education professional today are explored through discussion, writing, and readings. This course is to be taken while student teaching. Prerequisite: AED 321. Cr 3.

### **AED 424 Exceptionality in Art Education**

This course examines characteristics of exceptional learners (including any mildly to moderately impaired or handicapped student who requires special assistance and any student who exhibits gifted or talented behavior in the arts), strategies for teaching these students in the art classroom, and services available to them in the school and community. The focus will be on lesson planning, learning-teaching styles and strategies, and classroom management for mainstreaming in the art classroom. Prerequisite: AED 321 or permission of instructor. Cr 3.

### **AED 428 Independent Study in Art Education**

An opportunity for the student who has demonstrated competence in a specific area of study to work independently, with scheduled tutoring from a faculty member of the student's choice. Prerequisites: permission of the instructor and Art Department chair. Cr 1 to 6.

## **Biological Sciences**

*Chair of the Department:* Thomas J. Knight, 201 Science Building, Portland  
*Health Professions Advisor:* Patricia M. O'Mahoney-Damon, 206 Science Building, Portland, *Professors:* Gainey, Mazurkiewicz, Najarian; *Associate Professors:* Holmes, Knight, O'Mahoney-Damon, Riciputi; *Assistant Professors:* Dorsey, Varney, Weber; *Adjunct Professor:* Ng

A four-year program leading to a B.A. in biology is offered. The program provides students with a liberal arts education emphasizing the sciences. The required biology courses expose the student to an examination of life from the molecular to the community level. Other biology courses may be elected to suit individual interests and needs. The required courses in chemistry, mathematics, and physics reflect the interdisciplinary status of biology today. Graduates of this program have found careers in biological and medical research laboratories, field biology, and pharmaceutical sales, or have furthered their education by entering graduate medical, dental, optometry, veterinary, and law schools, as well as schools for allied health professions.

### *Biotechnology*

The Department also offers a self-designed major in biotechnology in conjunction with the Departments of Chemistry and Applied Immunology. For further information see the Interdepartmental Major Programs section of this catalog.

### *Pre-medical Students*

Almost every American school of medicine, veterinary medicine, and dentistry requires for admission a baccalaureate degree (major optional), two years of biology, two years of chemistry, one year of physics, a course in calculus, satisfactory performance on a national professional aptitude test, and a recommendation from a committee at the baccalaureate institution. At this campus, the Health Professions Pre-professional Evaluation Committee is comprised of faculty from the Departments of Biology, Chemistry, and Physics and is responsible for evaluating, comparing, and recommending students. For further information contact Patricia O'Mahoney-Damon, 206 Science Building, Portland.

### *Bachelor of Arts*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 71. A grade of C or higher in courses with a BIO prefix is required for the major, and a GPA of 2.0 in all other courses required for the major.

All of the following are required:

BIO	105K,	
	106K	Biological Principles I and Laboratory
BIO	107, 108	Biological Principles II and Laboratory

## **Programs and Requirements**

- BIO 301 Genetics  
 BIO 317 Evolution  
 One lecture/laboratory combination from each of the following four areas:  
 AREA 1: Organismal Biology  
 BIO 205 Comparative Vertebrate Anatomy  
 BIO 231 Botany  
 BIO 291 Ornithology  
 BIO 304 Embryological Development  
 BIO 333, 334 Ichthyology and Laboratory  
 BIO 335 Entomology  
 BIO 351 Invertebrate Zoology  
 BIO 353 Natural History of the Vertebrates  
 BIO 361, 362 Parasitology and Laboratory

- AREA 2: Community-Ecosystems  
 BIO 331, 332 Ecological Principles and Field Ecology  
 BIO 337 Marine Ecology  
 BIO 338 Marine Field Ecology  
 BIO 341 Limnology

- AREA 3: Functional Biology  
 BIO 381 Plant Physiology  
 BIO 401, 402 General Physiology and Laboratory  
 BIO 403, 404 Comparative Physiology and Laboratory

- AREA 4: Cellular Biology  
 BIO 311, 312 Microbiology and Laboratory  
 BIO 409, 410 Cell and Molecular Biology and Laboratory

In addition to BIO 105K, 106K, 107, 108, 301 and one course from the four stipulated areas, biology majors are required to take either two additional biology lecture courses or one biology lecture/laboratory course, with prefix numbers of 200 or above.

The biology major must also satisfactorily complete all of the following:

- CHY 113K, Principles of Chemistry I and II and Laboratory  
 114K,  
 115, 116  
 CHY 251, 252 Organic Chemistry I and II and Laboratory  
 253, 254  
 MAT 220 Statistics  
 MAT 152 Calculus A  
 PHY 111K,  
 112K Elements of Physics I and II  
 or  
 PHY 121K, General Physics I and II and Laboratory  
 122K,  
 123, 124

In addition, students must fulfill the University Core curriculum requirements.

### *Minor in Biology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

The minor consists of BIO 105K, BIO 106K, BIO 107, BIO 108; or BIO 106K, BIO 111, BIO 211, BIO 212; plus electives numbered 200 or above to equal 18 hours in biology coursework. Students must complete at least 6 hours of this coursework at USM.

### **Laboratory Fees**

A laboratory fee is assessed in biology laboratory courses.

#### **BIO 100K Biological Basis of Human Activity**

A course designed to elucidate the basic biological constraints of human performance. This course does not serve as a prerequisite for BIO 107 or BIO 211. Cr3.

#### **BIO 101K Biological Foundations**

An introduction to the areas of current biological interest: molecular and cellular biology, genetics and development, and evolution and population biology. Intended primarily for stu-

dents selecting a laboratory science to satisfy the Core curriculum or for those students not intending to take other courses in the Biological Sciences. This course cannot be used as a prerequisite for other biology courses. Cr 3.

### **BIO 102K Biological Experiences**

Laboratory studies to complement and illustrate the concepts presented in BIO 101K and BIO 100K. Prerequisite: Prior or concurrent registration in BIO 101K or BIO 100K. Cr 1.

### **BIO 103K Introduction to Marine Biology**

A course intended for the non-science major. Selected groups of marine plants and animals are used to develop an understanding of biological processes and principles that are basic to all forms of life in the sea. Integrated in the course are aspects of taxonomy, evolution, ecology, behavior, and physiology. Cr 3.

### **BIO 104K Marine Biology Laboratory**

An examination of prototype organisms will be used to illustrate their varied roles in the ocean. Prior or concurrent registration in BIO 103K. Cr 1.

### **BIO 105K Biological Principles I**

An introduction to scientific principles underlying the unity and diversity of life. Prerequisite: students must have fulfilled the University minimum proficiency requirements in writing and mathematics. Cr 3.

### **BIO 106K Laboratory Biology I**

Laboratory experiences illustrating concepts and principles introduced in BIO 105K. Must be taken concurrently with BIO 105K or BIO 111. Cr 1.5.

### **BIO 107 Biological Principles II**

An introduction to the structure, function, and ecological relationships of living organisms. Prerequisites: grades of C or higher in BIO 105K and BIO 106K. Cr 3.

### **BIO 108 Laboratory Biology II**

Laboratory experiences illustrating topics introduced in BIO 107. Must be taken concurrently with BIO 107. Cr 1.5.

### **BIO 111 Human Anatomy and Physiology I**

The course starts with the study of cell chemistry, structure, and function. Students will be introduced to the principles of genetics, reproduction, growth and development and to the study of the integumentary and skeletal system. Prerequisite: satisfactory completion of minimum proficiency requirements. Cr 3.

### **BIO 205 Comparative Vertebrate Anatomy**

The comparative study of vertebrate organ systems from an adaptational and evolutionary

point of view. Lecture three hours/week; one four-hour laboratory/week. Prerequisites: grade of C or higher in BIO 105K and BIO 106K. Cr 5.

### **BIO 207 Human Heredity and Embryology**

This course presents the fundamental principles of genetics and embryology as they apply to humans. The influence of nutrition, drugs, viruses, and physical agents on development will be discussed. Prerequisite: grade of C or higher in BIO 105K. Cr 3.

### **BIO 211 Human Anatomy and Physiology II**

This course focuses on many of the organ systems of the human body. The structure and function of the muscular, nervous, endocrine, cardiovascular, respiratory, digestive, and urinary systems will be discussed. Prerequisite: grade of C or higher in BIO 105K or BIO 111. Cr 3.

### **BIO 212 Practical Human Anatomy and Physiology**

Laboratory studies of the structure and functions of the human body including histology and physiological experiments. NOT open to those who have completed BIO 205. Prerequisite: grade of C or higher in BIO 106K; BIO 211 or concurrently. Cr 1.5.

### **BIO 231 Botany**

A study of structure, function, development, reproduction, and environmental adaptations of representative non-vascular and vascular plants. Lecture three hours/week; one three-hour laboratory/week. Prerequisites: grade of C or higher in BIO 105K and BIO 106K. Cr 4.5.

### **BIO 251 History of Biology**

A chronological survey of developments in biological investigations from earliest records to the present day. Prerequisite: grade of C or higher in BIO 105K. Cr 3.

### **BIO 281 Microbiology and Human Disease**

Fundamentals of microbiology with emphasis on infectious diseases of people, including bacteria, rickettsia, fungi, viruses, protozoa and helminths. Prerequisites: grade of C or higher in BIO 105K, and college chemistry. Cr 3.

### **BIO 282 Microbiology and Human Disease Laboratory**

Laboratory techniques in the cultivation, identification, and control of microorganisms. Prerequisite: BIO 281 or concurrently. Cr 2.

### **BIO 291 Ornithology**

This course studies the basic biology of birds: their life histories, migration, ecology, and economic importance, with emphasis on species found in Eastern North America. Numerous field

trips to a variety of habitats will be taken for purposes of field identification. Students are responsible for their own appropriate outdoor clothing and footwear and for binoculars. Prerequisites: A grade of C or higher in BIO 107 and BIO 108, or permission of instructor. Cr 4.5.

### **BIO 301 Genetics**

A study of the molecular basis of heredity and methods of genetic analysis. Lecture: 3 hours/week; discussion 1 hour/week. Prerequisites: grade of C or higher in BIO 107, 108 or BIO 211, 212; one year of college chemistry; or permission of instructor. Cr 3.

### **BIO 302 Genetics Laboratory**

Laboratory experiments in genetics. This course is optional for those who have taken or are taking BIO 301. Selected topics from BIO 301 will be studied by means of group and individual projects. Prerequisite: Prior or concurrent registration in BIO 301. Cr 2.

### **BIO 304 Embryological Development**

An integrated lecture-laboratory course covering embryological development from fertilization through organogenesis. Prerequisite: a grade of C or higher in BIO 301, or permission of the instructor. Cr 3.

### **BIO 305 Developmental Biology**

An analysis of the cellular and molecular interactions leading to normal development. Prerequisite: grade of C or higher in BIO 301 and prior or concurrent registration in BIO 304, or permission of the instructor. Cr 3.

### **BIO 311 Microbiology**

A consideration of protozoa, fungi, bacteria, and viruses of medical and biological importance. Prerequisites: grade of C or higher in BIO 105K, one year of college chemistry. Cr 3.

### **BIO 312 Microbiological Laboratory**

The laboratory isolation and examination of microorganisms by various techniques. Prerequisites: grade of C or higher in BIO 106K, BIO 311 or concurrently. Cr 2.

### **BIO 317 Evolution**

A study of the process of prebiological and biological evolution. Prerequisites: BIO 105K, 106K, 107, and 108. Cr 3.

### **BIO 331 Ecological Principles**

The interrelationships of living organisms and their environments, including humanity's impact on ecosystems. Prerequisites: grade of C or higher in BIO 107, and BIO 108. Cr 3.

### **BIO 332 Field Ecology**

Field and laboratory studies demonstrating basic concepts of ecology. Numerous field trips.

Prerequisite: BIO 331 or concurrently. Cr 2.

### **BIO 333 Ichthyology**

The systematics, structure, natural histories, and economic importance of fishes, with emphasis on species of the northeastern U.S. Prerequisite: grade of C or higher in BIO 107. Cr 3.

### **BIO 334 Ichthyology Laboratory**

Laboratory and field methods for collecting, identifying, and studying aspects of the natural history of fishes. Field work at a variety of habitats. Prerequisite: BIO 333 or concurrently. Cr 2.

### **BIO 335 Entomology**

Integrated lecture-laboratory course on the biology of insects and their impact on humanity. Prerequisites: grade of C or higher in BIO 107 and BIO 108. Cr 3.

### **BIO 337 Marine Ecology**

A comparative ecological study of coastal and oceanic environments. Prerequisites: Grade of C or higher in BIO 107 and BIO 108. Cr 3.

### **BIO 338 Marine Field Ecology**

Basic concepts of marine ecology will be demonstrated by field studies with an emphasis on coastal habitats. Prerequisite: Prior or concurrent registration in BIO 337. Cr 2.

### **BIO 341 Limnology**

This course is the study of inland waters with special concern for the factors which influence the living populations within these waters. Lecture: three hours/week; one four-hour laboratory/week. Prerequisites: Grade of C or higher in BIO 107/108 and one year of college chemistry. Cr 5.

### **BIO 345 Pathophysiology**

A study of the physiological, genetic, biochemical and environmental basis of noninfectious diseases. Prerequisite: grade of C or higher in BIO 211 or permission of instructor. Cr 3.

### **BIO 351 Invertebrate Zoology**

The morphology, physiology and evolution of invertebrate animals. Three hours of lecture and one four-hour laboratory per week. Prerequisites: a grade of C or higher in BIO 107 and BIO 108. Cr 5.

### **BIO 353 Natural History of the Vertebrates**

This course will study the systematics, distribution, behavior, and ecology of vertebrates (animals with backbones). Emphasis will be on animals of the Americas. Lecture: three hours/week; one four-hour laboratory/week. Prerequisites: grade of C or higher in BIO 107 and BIO 108. Cr 5.

**BIO 361 Parasitology**

The life histories and host-parasite relationships of animal parasites, with emphasis on those of humans. Prerequisite: grade of C or higher in BIO 105K. Cr 2.

**BIO 362 Parasitological Laboratory**

The morphology and life cycles of parasitic protozoa, helminths, and arthropods. Prerequisite: BIO 361, or concurrently. Cr 2.

**BIO 381 Plant Physiology**

This course is a study of the physiological activities of plants, and their growth and development as influenced by internal and external factors. Lecture three hours/week; one three-hour laboratory/week. Prerequisites: BIO 107 or BIO 231 and 1 year college chemistry or permission of instructor. Cr 4.5.

**BIO 401 General Physiology**

A study of physiological processes and their regulation in animals. Prerequisites: grade of C or higher in BIO 107 or BIO 211; one year of college chemistry; one semester of physics; or permission of instructor. Cr 3.

**BIO 402 General Physiology Laboratory**

Laboratory examination of physiological mechanisms in animals. Prerequisite: BIO 401 or concurrently; MAT 220. Cr 2.

**BIO 403 Comparative Physiology**

Physiological and biochemical basis of environmental adaptation. Prerequisites: grade of C or higher in BIO 107; one year of college chemistry; and junior standing. Cr 3.

**BIO 404 Comparative Physiology Laboratory**

Laboratory experiments on the physiological basis of environmental adaptation. Emphasis is on marine organisms. Prerequisite: BIO 403 or concurrently; MAT 220. Cr 2.

**BIO 409 Cell and Molecular Biology**

A study of the eukaryotic cell at the level of organelles and molecules. The biochemical aspects of cell growth and reproduction are emphasized. Prerequisites: two semesters of college biology with a grade of C or higher, CHY 251. Cr 3.

**BIO 410 Cell and Molecular Biology Laboratory**

A course in which the techniques of cell fractionation and biochemical analyses are applied to the eukaryotic cell. Prerequisite: BIO 409 or concurrently. Cr 2.

**BIO 421 Biology Seminar**

Weekly oral reports and discussions by students and staff on biological topics of current interest. Prerequisite: 16 hours of biology or permission of instructor. May be repeated. Cr 1 or 2.

**BIO 431 Immunology**

This course presents the fundamentals of immunology, especially as they relate to human disease. Prerequisites: BIO 105K, one year of college chemistry (both with a grade of C or higher), and junior standing; or permission of instructor. Cr 3.

**BIO 441 Problems in Biology**

Independent library or laboratory studies on a special topic as mutually arranged by instructor and student. Prerequisite: by arrangement. Credit Arranged.

## Chemistry

*Chair of the Department:* John Ricci, 350 Science Building, Portland  
*Professors:* Rhodes, Ricci, Stebbins; *Associate Professors:* Gordon, Newton;  
*Assistant Professors:* Tracy, Trumpet; *Professors Emeriti:* Smith, Sottery, Whitten

The field of chemistry is concerned with the structure of matter, its transformations, and the energy changes related to these transformations. Departmental aims are to contribute to the student's understanding of chemistry's place within the sciences and in today's industrial and business world, and to provide students concentrating in this field with a thorough and practical education that will be useful in teaching or in industrial, technical, or graduate work.

To achieve these aims the Department of Chemistry offers a four-year program with three tracks leading to baccalaureate degrees (B.A. in chemistry, B.A. in chemistry with emphasis in biochemistry, and B.S. in applied chemistry). Since the chemistry courses in each track are the same for the first two years, it is possible to switch tracks through the junior year. Students interested in a chemistry major are strongly urged to consult with a member of the chemistry faculty to discuss the total program and should pay particular attention to the pre- and co-requisites necessary for different courses.

To graduate as a chemistry major in any of the three programs, a student must maintain a minimum overall grade point average (GPA) of 2.0 and a GPA of 2.0 in all courses required for the chemistry major.

***Bachelor of Arts: Chemistry***

The minimum number of credits in chemistry and related areas (exclusive of the University's Core curriculum) required for the major in this track: 60.

The courses include: CHY 113K & 114K; 115 & 116; 231 & 232; 251 & 252; 253 & 254; 371 & 372, 373 & 374; two of the following five offerings: 321, 345, 351, 361 or 377/378; and 401 (a minimum of 39 hours within the department). In addition PHY 121K, 122K; 123, 124; MAT 152D, 153; COS 160/170 (PASCAL) or a math/computer science course approved by the Chemistry Department are required (a total of 22 more hours).

***Bachelor of Arts: Chemistry with Emphasis in Biochemistry***

Excluding those credits required by the University Core curriculum, the minimum number of credits in chemistry and related areas required for the major in this track is 64.

The courses include: CHY 113K & 114K; 115 & 116; 231 & 232; 251 & 252; 253 & 254; 361 & 362; 363; 371 & 372; 373 & 374; 401 (with the stipulation that the student elect a biochemical seminar topic). In addition, students will elect one of the following four offerings: 321, 345, 351, or 377 & 378 (a minimum of 43 hours within the Department). Additional requirements are: PHY 121K & 122K; 123 & 124; MAT 152D & 153; and COS 160/170 or a math/computer science course approved by the Chemistry Department (a total of 22 additional hours).

***Bachelor of Science: Applied Chemistry***

The minimum number of credits in chemistry and related areas (exclusive of the University's Core curriculum) required for the major in this track: 63.

The courses include: CHY 113K & 114K; 115 & 116; 231 & 232; 251 & 252; 253 & 254; 371 & 372; 321 or 345 or 361; and 401 (a minimum of 31 hours within the department). In addition PHY 121K & 122K; 123 & 124; MAT 152D; COS 160/170 or a math/computer science course approved by the Chemistry Department are required (a total of 18 hours). In addition, a candidate for the B.S. degree must elect 15 hours of CHY 490, Senior Research.

As a general rule, candidates for the B.S. degree in applied chemistry should complete the majority of their formal coursework at the University by the end of their junior year. The fourth year in the B.S. program consists partly of the intensive independent study and field experience in a specific application of chemistry. After a reasonable orientation period, the student will participate in the day-to-day operations of a laboratory (or alternative facility) as a functioning member of the staff. Supervision of the applied chemistry major during this period will be provided by a suitable qualified staff member of the host facility and by a member of the chemistry faculty, who will also supervise the independent study.

***Minor in Chemistry***

The minimum number of credits (exclusive of the Core curriculum) required for the minor: 17.

The minor consists of CHY 113K, 114K, 115, 116 and either of the following two groups of courses: 231, 232, 251, 252, or 321, 371, 373, and 374.

CHY	113K/114K	General Chemistry I with Laboratory	(4 credits)
CHY	115/116	General Chemistry II with Laboratory	(4 credits)
CHY	231/232	Analytical Chemistry with Laboratory	(4 credits)
CHY	251/252	Organic Chemistry I with Laboratory	(5 credits)
<b>Total hours</b>			<b>(17 credits)</b>

**or**

CHY	113K/114K	General Chemistry I with Laboratory	(4 credits)
CHY	115/116	General Chemistry II with Laboratory	(4 credits)
CHY	321	Inorganic Chemistry	(3 credits)
CHY	371	Physical Chemistry I	(3 credits)
CHY	373/374	Physical Chemistry II with Laboratory	(5 credits)
<b>Total hours</b>			<b>(19 credits)</b>

### *Minor in Biochemistry*

The minimum number of credits required (exclusive of Core courses) for the minor: 23. The minor consists of CHY 113K, 114K, 115, 116, 251, 252, 253, 254, 361 (Biochemistry), and *either* 362 (Biochemistry Laboratory) or 363 (Biochemistry II). The biochemistry minor is not open to chemistry majors.

### *Biotechnology*

The Department, in conjunction with the Department of Biological Sciences, also offers an interdepartmental major in biotechnology. See Interdepartmental Major Programs section of this catalog.

### **Admission Requirements**

Students who apply for admission to the chemistry program should have completed college preparatory courses in chemistry, physics, and mathematics. At least two years of algebra and a semester each of geometry and trigonometry are recommended as part of the student's high school program. (Freshmen in the chemistry program who lack this preparation in mathematics are required to take MAT 140D, Precalculus Mathematics.)

### **Laboratory Fees**

A laboratory fee is assessed in chemistry laboratory courses.

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#### **CHY 100 Foundations for College Chemistry**

A course designed to help students who are inadequately prepared to complete successfully the CHY 113-116 (Chemical Principles) sequence, either on the basis of their own perceptions or of their scores on two chemistry placement tests. The course will review basic chemical principles commonly presented in high school chemistry and emphasize solving mathematical problems commonly done in freshman college-level chemistry. Two lectures and one recitation session per week. No prerequisite. Not open to students who have already passed a chemistry course numbered 101 or higher. Cr 2.

#### **CHY 101K Introduction to Chemistry**

General topics in chemistry including introductory units on matter and its properties; measurement; elements and compounds; atomic structure; solutions, dispersions, and water; osmotic pressure; chemical bonds; chemical nomenclature; stoichiometry; radio-chemistry; gases; acids, bases and buffers; and energy relationships in chemical processes. Three hours lecture per week (usually concurrent with CHY 102K). Prerequisite: high school algebra and one year of high school chemistry (taken during the past five years) or a satisfactory grade level on the proficiency test administered by the Department. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry students. Cr 3.

#### **CHY 102K Introduction to Laboratory Measurement**

Experiments will be designed to teach students how to perform accurate and reliable measurements using the major parameters of mass and volume. Topics to be covered include: physical and chemical changes; separation of a mixture;

analysis of an ionic solution; properties of water; gases; acids, bases and buffers; titration. One recitation and two laboratory hours per week. Corequisite: CHY 101K. Not appropriate for chemistry or biology majors. Cr 1.

#### **CHY 103 Introduction to Organic and Biochemistry**

Stress will be placed upon topics of special importance for students of the health sciences: nomenclature of organic compounds; electron distribution in organic molecules; structural features of organic molecules; substitution, elimination, and addition reactions; oxidation reduction reactions; carbohydrates; lipids; proteins and amino acids; enzymes; nucleic acids; metabolism; summary of some aspects of nutrition; pharmaceuticals; medical applications of radiochemistry. Three lecture hours per week (usually concurrent with CHY 104). Prerequisite: a grade of C or better in CHY 101K. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry students. Cr 3.

#### **CHY 104 Introductory Organic and Biochemistry Laboratory**

Students will perform experiments to illustrate aspects of organic chemistry of importance to living systems, as well as elementary principles of biochemistry. Topics include separation and identification of organic compounds; qualitative reactions of lipids, proteins, and nucleic acids; introduction to enzyme chemistry. One recitation and two laboratory hours per week. Offered spring semester. Corequisite: CHY 103. Not appropriate for chemistry or biology majors. Cr 1.

#### **CHY 105 Chemistry for Health Sciences**

A one-semester introduction to general, organic, and biological chemistry, emphasizing princi-



ples that are important for students studying the health sciences. Topics include measurement; atomic structure; bonding; states of matter, solutions; pH, acids, and bases; selected functional groups in organic chemistry; lipids, carbohydrates, and proteins; and metabolism of glucose and fatty acids. This course is not suitable for chemistry majors, biology majors, or pre-professionals (pre-medical, pre-dental, pre-veterinary). Four 50-minute lectures per week. Prerequisite: one year of high school algebra. Cr 4.

### **CHY 106 Chemistry Laboratory for Health Sciences**

Experiments in this laboratory are designed to illustrate principles from CHY 105. Aims of the course are to develop skill in using common laboratory equipment, measuring and analyzing data, and reporting results of lab work. One four-hour meeting per week, comprising recitation and quizzes, laboratory work, and analysis of data. Students will need a scientific calculator with statistical functions. Corequisite or prerequisite: CHY 105. Cr 2.

### **CHY 110K Chemistry, Life, and the Environment**

An introduction to chemistry and its importance to the citizen through the study of atoms and molecules, and how the structures of molecules give rise to the harmful and beneficial effects of chemicals. Classroom examples will include medicines, drugs, consumer products, pollutants, toxins, carcinogens, sources of energy such as nuclear and solar power, and the molecules of life-proteins and DNA. Laboratory projects will include measuring pollutants, making and purifying well-known compounds such as aspirin, and examining the chemical content of foods. Through readings and experiments, students will learn how chemists arrive at their models of molecular structure, and how the chemist's picture of matter has become clearer and more useful over the past two centuries. This course is designed to satisfy the Natural Sciences (Area K) requirement of the Core curriculum, and is recommended for students with no prior coursework in chemistry. Three one-hour lectures and one three-hour laboratory per week. Prerequisite: completion of all the Core Basic Competence Requirements. Cr 4.

### **CHY 113K Principles of Chemistry I**

A presentation of fundamental principles of chemical science. These principles will be presented in quantitative terms and illustrated by examples of their applications in laboratories and in ordinary nonlaboratory experience. This course and CHY 114 (normally taken concurrently) provide the basis for further study of chemistry. Prerequisite: high school algebra and one year of high school chemistry (taken during the past five years) or a satisfactory grade

level on the proficiency test administered by the Department. Three lectures per week. Cr 3.

### **CHY 114K Laboratory Techniques I**

Laboratory experiments to illustrate the principles that are presented in CHY 113 lectures. One recitation and two laboratory hours per week. Corequisite: CHY 113K. Cr 1.

### **CHY 115 Principles of Chemistry II**

A continuation of CHY 113K. This course is designed to provide the foundation for all further studies in chemistry and is a prerequisite for all upper-level chemistry courses. Prerequisite: a grade of C or better in CHY 113K. Cr 3.

### **CHY 116 Laboratory Techniques II**

Laboratory experiments to illustrate the principles presented in CHY 115 lectures. One recitation and two laboratory hours per week. Prerequisite: a grade of C or better in CHY 114K. Corequisite: CHY 115. Cr 1.

### **CHY 231 Analytical Chemistry**

A survey of principles and applications of modern analytical chemistry and related calculations. Topics include volumetric and gravimetric analysis, electroanalysis, spectrophotometry, separations, statistics, and error analysis. Two lecture hours per week with an optional hour of problem-solving recitation. Prerequisite: a grade of C or better in CHY 115. Cr 2.

### **CHY 232 Analytical Chemistry Laboratory**

Quantitative experimental determination by means of classical and instrumental methods. Techniques used include titration, gravimetric analysis, extraction, spectrophotometry, electroanalysis, and chromatography. Precision, accuracy, and statistical error analysis of results are emphasized. Four lab hours per week. Prerequisite: a grade of C or better in CHY 116. Corequisite: CHY 231. Cr 2.

### **CHY 251 Organic Chemistry I**

An intensive treatment of organic chemistry. Topics include: nomenclature; structure and stereochemistry; reaction types: substitution, addition, elimination and oxidation-reduction; reaction mechanisms and factors influencing them; spectroscopic techniques of structure determination (mass, nuclear magnetic resonance, ultraviolet-visible and infrared). Three lectures per week. Prerequisite: a grade of C or better in CHY 115. Cr 3.

### **CHY 252 Organic Chemistry Laboratory**

Experiments will be performed to illustrate the basic laboratory skills of crystallization, extraction, distillation, and melting and boiling point determinations. Spectroscopic and chromatographic techniques will be demonstrated.

Chemical reactions studied include free radical halogenation, nucleophilic substitution, and oxidation and reduction. One recitation and three laboratory hours per week. Prerequisite: a grade of C or better in CHY 116. Prerequisite or corequisite: CHY 251. Cr 2.

### **CHY 253 Organic Chemistry II**

A continuation of CHY 251, but with a more extensive (and intensive) investigation of the principal categories of organic reactions. Extensive problem solving in such areas as structure determination, spectroscopy, and stereochemistry. The structures and fundamental chemical reactions of lipids, carbohydrates, proteins and nucleic acids will be presented. Three lectures per week. Prerequisite: a grade of C or better in CHY 251. Cr 3.

### **CHY 254 Organic Chemistry Laboratory II**

The course begins with a multi-step synthesis of an antibiotic. The second half of the semester is devoted to organic qualitative analysis including solubility tests, classification tests, preparation of derivatives, and the interpretation of spectra to assist in the identification of unknowns. One recitation and three laboratory hours per week. Prerequisite: A grade of C or better in CHY 252. Prerequisite or corequisite: CHY 253. Cr 2.

### **CHY 321 Inorganic Chemistry**

Descriptive chemistry of the inorganic compounds, structure, bonding and ligand field theory. Three lectures per week. Prerequisite or corequisite: CHY 371. Cr 3.

### **CHY 322 Inorganic Chemistry Laboratory**

Preparation and characterization of inorganic compounds. One recitation and three laboratory hours per week. Prerequisite or corequisite: CHY 321. Not offered every year. Cr 2.

### **CHY 345 Polymer Chemistry**

We live in a plastic society. During the past 40 years plastics (synthetic polymers) have become an integral part of our daily lives. This course will survey the past, present, and future of the chemistry of these essential materials. We will discuss the preparation of polymers under radical chain, step-reaction, ionic, and coordination conditions. Then we will consider methods of characterization of polymers, both experimental and theoretical. Finally we will examine commercial polymers and polymer technology. Prerequisites: CHY 253 and 373. Cr 3.

### **CHY 351 Advanced Organic Chemistry**

This course examines the chemistry of natural products. Topics covered include the isolation of natural products from plants, their chemical and spectroscopic characterization, as well as their biosynthesis. The primary focus of the course,

however, will be on modern synthetic methods with special emphasis on retrosynthetic analysis and the development of logical synthetic schemes. This course is intended for students who enjoyed introductory organic chemistry and who would like to learn more about the chemistry of biologically important molecules. Prerequisite: a grade of C or better in CHY 253. Cr 3.

### **CHY 361 Biochemistry**

Application of chemical methods and principles to understanding biological processes. Topics include structure and action of proteins, lipids, and carbohydrates; enzyme kinetics and mechanisms; and metabolism and energy conversion. This one-semester course provides a survey of the major areas of biochemistry except nucleic acids. Three lectures per week. Prerequisite: a grade of C or better in CHY 253. Cr 3.

### **CHY 362 Biochemistry Laboratory**

Basic experimental methods in modern biochemistry. Experiments include detecting, purifying, and characterizing proteins; analyzing protein structure, and measuring membrane dynamics, enzyme action, and metabolic activity. Techniques include ultraviolet and visible spectrophotometry; ion-exchange, gel, and high-pressure liquid chromatography; centrifugation; electrophoresis, and the use of computers to analyze data and to display and analyze molecular structures. One hour lecture and three hours laboratory per week. Prerequisite: a grade of C or better in CHY 254. Prerequisite or corequisite: CHY 361. Cr 2.

### **CHY 363 Biochemistry II**

Continuation of CHY 361. Topics include selected biosynthetic pathways; photosynthesis; structure and action of nucleic acids, including replication, transcription, translation, the genetic code, genetic regulation and genetic engineering; conformational analysis of biomolecules; and some of the following topics chosen according to student interest: molecular basis of immunity, membrane transport, hormone action, nerve action, motility, and origin of life. Three lectures per week. Prerequisite: a grade of C or better in CHY 361. Cr 3.

### **CHY 364 Biochemistry Laboratory II**

Continuation of CHY 362. Experiments include detecting and characterizing lipids, sequencing proteins and nucleic acids, analyzing protein conformation, measuring protein synthesis, and characterizing antigen-antibody interactions. Techniques include paper and thin-layer chromatography, gel electrophoresis, and computer graphics. One hour lecture and three hours laboratory per week. Prerequisite: a grade of C or better in CHY 362. Prerequisite or corequisite: CHY 363. Cr 2.

### **CHY 371 Physical Chemistry I**

Introduction to the principles of theoretical chemistry: classical and statistical thermodynamics, molecular energetics, quantum phenomena and equilibrium. Candidates for the B.S. degree elect this course in the fall semester of the junior year. Three lectures per week. Prerequisites: a grade of C or better in CHY 115, MAT 152, and PHY 123. Cr 3.

### **CHY 372 Physical Chemistry Laboratory I**

Experiments illustrating material presented in CHY 371, such as thermochemistry, absorption phenomena, and physical properties of gases and liquids. One recitation and three laboratory hours per week. Prerequisite: a grade of C or better in CHY 116. Prerequisite or corequisite: CHY 371. Cr 2.

### **CHY 373 Physical Chemistry II**

Additional principles of theoretical chemistry: reaction kinetics, electrochemistry, quantum mechanics and spectroscopy. Three lectures per week. Prerequisite: a grade of C or better in CHY371. Cr 3.

### **CHY 374 Physical Chemistry Laboratory II**

Experiments illustrating material presented in CHY 373. One recitation and three laboratory hours per week. Prerequisite or corequisite: CHY373. Cr 2.

### **CHY 377 Instrumental Analysis**

A consideration of the applicability of current laboratory instrumentation both to the elucidation of fundamental chemical phenomena and to the measurement of certain atomic and mole-

cular parameters. Topics include absorption and emission spectroscopy in the ultraviolet, visible and infrared regions; chromatography; electrochemistry; mass spectrometry; and magnetic resonance. Two lectures per week. Prerequisite or corequisite: CHY 231 and CHY 371 or permission. Cr 2.

### **CHY 378 Instrumental Analysis Laboratory**

Experiments will be performed in low resolution ultraviolet and infrared absorption spectroscopy, flame spectroscopy, and atomic absorption. Prerequisite: a grade of C or better in CHY 232 and CHY 371. One hour of pre-lab recitation and three laboratory hours per week. Cr 2.

### **CHY 401-409 Seminar**

Oral and written presentation of a current topic in chemistry or of research results. Required of all senior majors. Satisfactory completion of written paper fulfills technical writing requirement. Cr 1.

### **CHY 410-419 Special Topics**

Reading and discussion of advanced subjects or instruction in special topics/research. Permission of instructor required. 6 credits maximum. Cr 1-3.

### **CHY 490 Senior Research Project**

Open to senior majors. Prerequisites include a 3.0 GPA in chemistry, completion of the Analytical and Organic Chemistry series, and permission of the department. 15 credits maximum. Cr 3-15.

## **Communication**

*Chair of the Department:* Kathryn Lasky, 51 College Avenue, Gorham  
*Professor:* Shedletsky; *Associate Professors:* Lasky, Lockridge, West;  
*Assistant Professor:* Kivatisky

Communication is an ancient field of study, tracing its roots back to the Golden Age of Greece when Aristotle studied rhetoric, the art of persuasion. Citizen participation in politics was at the heart of Greek democracy and the power of the spoken word was key to participation. Throughout history, people have been moved to action by influential speakers who communicate effectively.

During the 20th century, communication inquiry began to broaden beyond its traditional focus to include knowledge gained from psychology, sociology, anthropology, and other contemporary fields of study. Scholars examined the effects of communication on attitude formation, interpersonal relationships, group decision making, and organizational behavior. Meanwhile, the introduction of radio, television, and film further expanded the scope of the discipline.

Today, students and faculty consider issues involving gender and communication, multiculturalism, ethics, health communication, media and public policy, and other current topics. Understanding the processes of communication in our world is as important to democracy as public speaking was for the ancient Greeks.

The Department of Communication supports a gender-neutral language policy which discourages use of sexist language in classes, course materials, and at Department events.

### *Communication Students Association (CSA)*

Students are strongly encouraged to become part of one of the most active student organizations on campus. The CSA is a forum for students to discuss a variety of issues pertaining to their classes, their academic work, and their job prospects. The CSA also serves as a formal liaison between faculty and students. Elected representatives from the organization are involved in Department decision making and help guide Department activities. The CSA plays an integral role in the academic advising of majors, the publication of a Department newsletter and hosting guest speakers. Students interested in becoming a member of CSA should contact the Department administrative assistant at 780-5388.

### *Bachelor of Arts*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

In addition to COM 102J, students must complete the following before continuing in the major: English Composition, Quantitative Decision Making, and Skills of Analysis/Philosophy. Be advised that MAT 120D is a prerequisite to some required upper level communication courses. A grade of C or better is required in all communication courses to receive major credit in the Department.

### *Major Requirements (36 credits)*

A student should plan to take at least two academic years to complete the degree after taking COM 102J.

#### Communication Theory Core (9 credits)

COM	102J	Introduction to Communication
COM	300	Research Methods in Communication
COM	495	Theories of Communication

#### Foundations of Communication Theory (15 credits)

COM	265	Intrapersonal Communication
or		
COM	375	Meaning and Communication
COM	272	Rhetorical Theory
COM	280	Mass Media and Human Interaction
COM	330	Interpersonal Communication
COM	390	Theories of Organizational Communication

#### Communication Electives (9 credits)

Students can take any three courses offered through the Department of Communication to fulfill this requirement. The communication internship program and independent studies do not satisfy these credits but can be used toward the 120 credits needed in order to graduate.

#### Senior Seminar (3 credits)

Students seeking this 24-credit minor in communication should complete all the requirements necessary to declare a major in communication and complete the Communication Theory Core and Foundations of Communication Theory requirements of the major.

This concentration prepares students for careers in media organizations (television, film, advertising, public relations, promotions, to name a few) or for advanced work in graduate school. This program is selective; placement is not guaranteed. The deadline for applying is March 15, to begin the program the following fall semester. The program will take four semesters to complete.

Students must complete the Communication Theory Core requirements, the Foundations of Communication Theory requirements, and the Senior Seminar in the major program (27 credit hours), as well as the requirements for the Media Arts concentration (30 credit hours).

## **Programs and Requirements**

## **Minor in Communication**

## **Media Arts Concentration**

### *Production Track*

#### *Pre-production (3 credits)*

COM 274 Writing for Non-Print Media

#### *Production (12 credits)*

COM 260 Television Studio Production I

COM 360 Television Studio Production II

COM 382 Video Field Production I

COM 482 Video Field Production II

#### *Theory (12 credits)*

COM 284 Introduction to Film

COM 374 Television Criticism and Aesthetics

COM 394 Theories of Film

Elective

#### *Media Arts Practicum (3 credits)*

### *Media Arts Practicum Experience (3 credits)*

Students will also become involved with two different types of practicum experience. Students may select the type of production which best suits their interests. 1) COM 492 Video Field Production Practicum: Students will participate in the production of documentary videos and single-camera, on-location work. **OR** 2) COM 493 Television Studio Production Practicum: Students will participate in the production work conducted at USM-TV.

### *Elective Projects*

#### Senior Project in Media Arts (up to 6 credits)

Students can elect to produce a special project during their senior year; for example, they may write a screenplay, produce a short documentary.

#### Media Internship Program (up to 15 credits)

Students may work at media organizations for practical, professional experience. In the past, students have worked with WCSH-6 Alive (NBC affiliate); WPXT-FOX 51; MTV, New York City; *Good Morning, America*, New York City.

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### **COM 102J Introduction to Communication**

This course is designed to provide students with a conceptual framework of the basic theoretical elements of human communication. Students will develop a working knowledge of theories that explain a wide scope of communication phenomena. Topics will include conflict, self-concept, self-disclosure, decision making, ethics, agenda setting, and the function of silence. These subjects will be discussed in a range of contexts, including nonverbal, interpersonal, small group, organizational, and mass media. Students will be encouraged to adapt communication principles to their various fields of endeavor. Cr 3.

### **COM 234 Communication and AIDS**

This course will examine how communication research and theory function in discussions of AIDS. Topics include compliance gaining, media deception, self-disclosure, relationship termination, and sex talk. Prerequisite: COM 102J. Cr 3.

### **COM 242 Media and Children**

This course examines the impact of media presentations on the child audience from a developmental perspective. Special attention is given

to the issue of the effects of televised violence and educational or prosocial programming. The readings and discussions cover the various theoretical approaches and models, as well as the major findings reported in the scientific literature. Legal, economic, and policy considerations that surround the debate on children and television are discussed. The course focuses mainly on the critical and empirical study of how young people use the mass media and how the media play a role in their lives. Prerequisite: COM 102J. Cr 3.

### **COM 260 Television Studio Production I**

This course is designed to develop the fundamental skills of visualization, storytelling, and technological awareness in the service of ideas. Course content will explore the procedures and knowledge needed for each stage of production: pre-production, setup and rehearsal, production, and post-production. Coursework will acknowledge the essential blend between practical and theoretical knowledge. A sense of respect for the team process of television production and the value of team collaboration will be stressed. Prerequisite: media arts students or instructor's permission. Cr 3.

### **COM 265 Intrapersonal Communication**

This course examines our ability to use what we know and feel in order to send, receive, and store information. Whether stimuli come from an external source or from within the self, the focus of intrapersonal communication is on the ways in which we process those stimuli, our ability to make sense out of our experiences, to remember, to retrieve information from memory, and to create messages at whatever level of consciousness, and no matter how many people are involved, in face-to-face or mediated communication. Prerequisite: COM 102J. Cr 3.

### **COM 272 Rhetorical Theory**

A course designed to help students understand the basic principles of persuasion. The course deals with persuasion as a social phenomenon. The perspective from which the course is offered is the analysis of persuasion as a behavioral process. As such, the course will investigate the social science research that relates to persuasion. Students will examine the attempts made by others to persuade them, as well as the attempts they make to persuade others. Further, the course will deal with the issue of ethics in persuasion. Prerequisite: COM 102J. Cr 3.

### **COM 274 Writing for the Non-Print Media**

This writing-intensive course is designed to provide students with the requisite professional writing skills needed in public relations, advertising, television, radio, and film. Assignments will address current practices in the industry. Prerequisite: COM 102J. Cr 3.

### **COM 275 Theories of Language**

The purpose of this course is to instigate thinking about the nature of language. The course is premised upon the conviction that, because language is such a central concern of so many disciplines and because various disciplines have made important contributions to our understanding of it, language can only be studied adequately via an interdisciplinary approach. The student will be introduced to some of the foremost efforts to comprehend language in the fields of psycholinguistics, philosophy, and linguistics. Through these disciplines, we intend to raise and pursue questions concerning the nature of language, its structure and function, its relation to people's perception of reality, and its relation to the mind. Prerequisite: COM 102J. Cr 3.

### **COM 280 Mass Media and Human Interaction**

Mass Media and Human Interaction concentrates on the history and effects of mass communication in our society. Through readings and independent research, the student will explore the content and social consequences of our rapidly changing telecommunication technology. Media to be discussed include print,

broadcasting, and cable. Prerequisite: COM 102J. Cr 3.

### **COM 284 Introduction to Film**

This course will introduce the student to film aesthetics and appreciation. It assumes that the student has no knowledge of cinema beyond the moviegoing experience. The aim of the course is to survey the fundamental aspects of cinema as an art form and communication vehicle. The power of moving images and their mass-mediated messages will be analyzed. Prerequisite: COM 102J. Cr 3.

### **COM 286 History of Film to 1945**

This course surveys the major films, filmmakers, and cinema institutions from the invention of moviemaking at the end of the nineteenth century through World War II. Films will be explored through four perspectives: as artistic expressions, as economic propositions, as products of and catalysts for social influences, and as representations of technological advances. Prerequisite: COM 284. Cr 3.

### **COM 288 History of Film since 1945**

This course continues the survey of film history begun in COM 286. Major films, filmmakers, and cinema institutions of each era in film history from World War II until the present will be studied. Films will be explored through four perspectives: as artistic expressions, as economic propositions, as products of and catalysts for social influences, and as representations of technological advances. Prerequisite: COM 284. Cr 3.

### **COM 294 Television Processes**

The purpose of this course is to enhance understanding of TV processes by introducing students to several basic visual aspects of reality as mediated through a camera lens. Topics covered will include techniques of lighting, camera angles, perspective, shot distance, cutting to continuity, and montage. Students will use 35 mm cameras to produce assignments on color slides. These will be used in class discussion in conjunction with illustrations taken from magazines that demonstrate the same techniques. In addition to learning some rudiments of visual language, students will examine visual persuasive strategies. The course is open to all communication majors who have access to a 35 mm camera with manual controls. Automatic camera controls are optional. Prior experience with photographic procedures is helpful but not necessary since all students will receive instruction leading to a working knowledge of photographic techniques. Prerequisite: COM 102J. Cr 3.

### **COM 300 Research Methods in Communication**

This course introduces the methodology of

communication research. The library, laboratory, field, and the computer will be considered. Topics to be studied include formulation of hypotheses; identification of variables; selection of research design; collection of data; and theory construction in a variety of communication contexts. The course is designed to enable students to evaluate critically the literature in communication research. Prerequisites: COM 102J and MAT 120D. Cr 3.

### **COM 320 Intercultural Communication**

This course is primarily concerned with the interrelationship between communication and culture in human interaction. Initially, the course focuses on sensitizing students to intercultural communication variables that influence their interactions. Thereafter, those variables are applied to varied sub-cultures within the U.S. in an effort to expand students' knowledge and sensitivity to such sub-cultures. Course content includes theoretical readings and experiential exercises and discussions. Prerequisite: COM 102J. Cr 3.

### **COM 330 Interpersonal Communication Theories**

A study of the current thinking in interpersonal communication which emphasizes specific theories of human interaction. Students will be exposed to research in the interpersonal setting and will apply findings to their personal relationships. The course will help students foster effective traditional and nontraditional relationships with a variety of people. Prerequisites: COM 102J and COM 300. Cr 3.

### **COM 332 Communication and the Family**

This course examines the role of communication in various family types. Students will be introduced to research and theory on the family and will apply findings to their own lives. Topics covered will include family satisfaction, communication rules, decision making, values, structures, autonomy, and conflict. Students will be asked to draw upon their family backgrounds for analysis and discussion. Prerequisites: COM 102J and COM 300. Cr 3.

### **COM 340 Small Group Communication**

This course is designed to familiarize students with the theories and techniques associated with group behavior. The course explores the topics of leadership, conflict resolution, group climate, and decision making. Through simulations and exercises students learn methods for analyzing group process and their own behavior. Students' findings are reported in preliminary and final papers. Prerequisite: COM 102J. Cr 3.

### **COM 360 Television Studio Production II**

This course continues to explore the concepts

introduced in COM 260. More complex assignments will be given to hone skills in writing, directing, and producing. Prerequisite: COM 260. Cr 3.

### **COM 370 Media and Social Change**

This course analyzes how news media coverage affects social change. Students explore how and why the media cover social movements the way they do, and look closely at news coverage of the civil rights, black power, antiwar, women's and men's movements. Both print and TV news are examined through readings, discussion and original research. Prerequisites: COM 102J and COM 280. Cr 3.

### **COM 374 Television Criticism and Aesthetics**

The purpose of this course is to introduce students to the variety of critical approaches applied to the analysis of television content. The course investigates issues in popular culture and mass culture. In addition, the readings review traditional and contemporary television criticism. The final part of the course will provide a critical context for viewing the television medium within the framework of video culture. Prerequisites: COM 102J and COM 280. Cr 3.

### **COM 375 Meaning and Communication**

This course examines the assignment of meaning to verbal behavior, especially conversational exchange. Researchers have paid special attention to the ways in which words and actions take on meaning in context. We will focus on the full communicative event involving talk, i.e., context, pragmatics, grammatical structures, conversational structures, and types of meaning. A central question of the course is: How do people interpret what other people say? The course makes use of close reading and discussion of theory as well as the collection and analysis of naturally occurring spontaneous spoken and written discourse. Prerequisite: COM 102J. Cr 3.

### **COM 382 Video Field Production I**

This course is primarily concerned with the development of critical evaluation skills needed in assessing and analyzing the video medium as a communication vehicle. Students will engage in actual video production projects. Prerequisite: COM 360. Cr 3.

### **COM 390 Theories of Organizational Communication**

This course is designed to introduce students to organization theory and behavior through the medium of metaphor. Using different metaphors, the course draws attention to significant aspects of the process of organizing, and provides a means for understanding and managing organizational situations. Students are responsible for conducting on-site field studies

and preparing written and oral presentations of their findings. Prerequisites: COM 102J and COM 300. Cr 3.

### **COM 394 Theories of Film**

The emergence and evolution of the film medium are traced through the writings and teachings of both the classic and the modern theorists/film-makers, from several perspectives: humanistic, ideological, and technical. The course focuses on the contributions of historical trends, film genres, major schools of thought, and the works of selected individuals in shaping a concept of what the medium of film is, how it operates as a language, how it relates to reality and what functions it serves. Students will apply these notions in their examination of the often conflicting relationships among the various theories as well as between film theory and film criticism. Prerequisites: COM 102J and COM 284. Cr 3.

### **COM 420 Communication and Cognition**

A seminar designed to explore the relationship between communication and thought processes. The nature of consciousness is explored through a consideration of the acquisition, retention, and retrieval of information. Special attention is given to experimental analysis of thought processes. Prerequisites: COM 102J, COM 265, COM 300 and junior or senior standing. Cr 3.

### **COM 430 Communication Internship**

An in-depth experience in specific areas of communication acquired in the field. Students will focus their efforts in an area related to their choice of communication expertise (i.e., organizational communication, mass communication, interpersonal communication). Prerequisites: COM 102J and a precise definition of the project and director's consent. Pass/Fail only. Restricted to majors only, or permission of the instructor. Cr var.

### **COM 475 Topics in Organizational Communication**

This course focuses on the cultural/interpretive approach to understanding organizational communication. Students will study and discuss the basic assumptions of naturalistic and critical schools of thought, and will read exemplar essays presenting research and conceptual development within these domains. Topics will include symbolic convergence, account analysis, role performance, organizational power, organizational climate, and socialization. Prerequisites: COM 102J, COM 300, and junior or senior standing. Cr 3.

### **COM 482 Video Field Production II**

This course continues to explore the concepts introduced in COM 260. Students will thor-

oughly investigate pre-production planning, production techniques, and post-production execution in order to communicate clearly in the video medium. More complex assignments will be given to hone skills in writing, directing, and producing. Prerequisite: COM 382. Cr 3.

### **COM 484 Topics in Film**

This course is a senior seminar designed to explore a particular topic in film communication. The professor designated to teach the course during any given semester will select an area of interest to explore with students. Such topics as film and society, women in film, and the silent cinema are areas that could be selected. Class sizes are limited in order for students to participate in discussion and contribute to the group's synergy. Prerequisites: COM 102J, COM 284, COM 300, and junior or senior standing. Cr 3.

### **COM 485 Sex-Related Differences in Communication**

This seminar on sex-related differences in communication is designed primarily to evaluate critically the research literature. It is concerned with whether or not males and females differ in their actions of sending, receiving, and interpreting messages. The course examines gender-role stereotyping, empirical findings on sex-related differences in communication behavior (e.g., talking, interpersonal style, touching, eye contact, etc.), and explanations for sex differences. Critiques of some major theoretical positions are discussed (e.g., sex differences in dominance, aggression, cognition, and brain organization). Prerequisites: COM 102J, COM 300 and junior or senior standing. Cr 3.

### **COM 490 Theories of Mass Communication**

A discussion of significant factors related to communication theory. Contemporary theories of mass communication, the mass media, audience analysis, and the role of mass communication in society will be among the topics examined in the course. Students elect to examine an aspect of mass communication that is of interest to them, and present their findings in research papers and projects. Prerequisites: COM 102J, COM 280, COM 300 and junior or senior standing. Cr 3.

### **COM 491 Independent Study**

A concentrated program of research or study on a particular topic of the student's choice, with approval of a Communication faculty advisor. Periodic conferences with the advisor are required. Prerequisites: COM 102J, COM 300 and junior or senior standing. Cr 3-6.

### **COM 492 Video Field Production Practicum**

Students will participate in the production of documentary videos and single-camera, on-



location work. This course may be repeated up to a total of 4 credits. Prerequisite: open to majors in media arts concentration only.

Cr 0.5 to 1.0.

### **COM 493 Television Studio Production Practicum**

Students will participate in the production of original teleplays and scripts to be produced within a television studio setting. This course may be repeated up to a total of 4 credits. Prerequisite: open to majors in media arts concentration only.

Cr 0.5 to 1.0.

### **COM 494 Media Arts Internship**

This program offers internships with media organizations in Maine as well as across the country.

Radio and television broadcast organizations and film and video production organizations are the predominant assignments. Prerequisite: junior or senior standing.

Cr var.

### **COM 495 Theories of Communication**

This course is designed for upperclass students who are majoring or minoring in communication studies. Based on a seminar format, students in this course will explore in depth several advanced theories of communication, mechanistic through interactive, with examples and application for each. Prerequisites: COM 102J, COM 265, COM 272, COM 280, COM 300, COM 330, COM 390 and junior or senior standing.

Cr 3.

## **Criminology**

*Chair of the Department:* James Messerschmidt, 1 Chamberlain Ave., Portland

*Professors:* Beirne, Messerschmidt; *Assistant Professors:* Bjelic, Perry

The Department of Criminology offers a four-year program leading to a bachelor of arts degree in criminology. The program provides students with a liberal arts education whose focus is the complex relations among crime, law, and society, and which emphasizes the social sciences. The curriculum is a rigorous series of courses which provides students with a comprehensive knowledge of crime and crime control in contemporary, historical, and comparative perspective. The core of the curriculum is an integrated set of required courses. These courses are designed as a cumulative set of experiences and must be taken in sequence. Elective courses enable students to place their criminological interests in a broader perspective.

Many students in the program are interested in social and human service occupations related to criminal, juvenile, and social justice. The program also prepares students for a wide variety of other career options and provides an excellent basis for graduate study in criminology, other social sciences, and law.

### *Student Participation*

Student involvement is a high priority for the Department. Students are involved in the research projects of the Department as well as the everyday administrative and advising life of the Department. Representatives of the Criminology Students' Association are involved in all Departmental activities and decisions as full voting members of the Department. Student representatives are elected by members of the association each April, although vacancies sometimes occur during the year. Students who are interested in this sort of participation are encouraged to talk to Departmental faculty.

### *Internships*

The Department of Criminology offers a strong and established internship program. The internship program helps place students in community agencies and organizations, including neighborhood organizations and a variety of agencies dealing with youth services. Credit internships actively seek to bring together student academic work and community involvement. Students interested in an internship placement are encouraged to meet with Piers Beirne, internship coordinator.

## Colloquia

The Department of Criminology sponsors a colloquium series that seeks to bring together faculty and students in active discussion around a variety of topics. Several colloquia are scheduled each semester with faculty, students, or visiting scholars making presentations. A schedule of current colloquia is available in the Departmental office.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

### Required Courses (24 credits)

CRM	215J	Criminology
CRM	216	White-Collar Crime
CRM	220	Criminological Inquiry
CRM	310	Classical Theories of Social Order
CRM	311	Contemporary Theories of Social Order
CRM	317	Gender and Crime
CRM	334	Law and State
CRM	401	Comparative Criminology

### Elective Courses (12 credits)

Students are also required to choose four elective courses (12 hours) from the following courses. Two of these four electives must be taken from criminology. The remaining two electives must be chosen from the other courses listed below.

#### Criminology

CRM	217	Crime in Maine
CRM	222	Field Studies in Informal Social Order
CRM	301	Criminological Theory
CRM	320	Film and Social Order
CRM	325	Canadian Justice Policy
CRM	337	Youth Crime
CRM	340	Criminal Law
CRM	345	Criminology in Sweden
CRM	350	Topics in Criminology
CRM	390	Independent Projects
CRM	395	Internship

#### Sociology

SOC	312	Inequality and Power
SOC	316	Sociology of Gender
SOC	318	Childhood and Society
SOC	330	Sociology of the Family
SOC	331	School and Society
SOC	336	Law and Society
SOC	354	Comparative Political Ideologies
SOC	355	Politics and Society
SOC	357	Organization: Individual and Society
SOC	358	Sociology of Women's Work
SOC	371	Sociology of Minority Groups
SOC	374	Mental Health and Illness
SOC	375	Sociological Perspectives on Deviance
SOC	400	Punishment and Social Control

#### Philosophy

PHI	260	Philosophy
PHI	265	Feminist Philosophy

#### Women's Studies

WST	220	Topics in Women's Studies
WST	260	Women, Gender and Institutions
WST	280	Women, Knowledge and Power
WST	320	Advanced Topics in Women's Studies
WSR	380	Politics of Difference

### *Major Credit, Grade Policy, and Continuing in the Major*

All major courses have prerequisites. Courses to be taken for major credit at other colleges and universities must be approved in advance. Grades of C or better must be achieved in all courses for major credit. Courses taken pass/fail are not acceptable in the major. The chair of the Department routinely requests faculty to submit a list of those students doing less than C work at mid-semester. These students are strongly encouraged to meet with their professor, and may be required to meet with the chair.

Before taking CRM 216 or any criminology course above that level, students must have completed SOC 100J and CRM 215J, as well as the following three areas of the Core curriculum: 1) English Composition; 2) Quantitative Decision Making; and, 3) Skills of Analysis.

To complete the major successfully, students must have a GPA of 2.33 or higher and have demonstrated satisfactory performance in major courses (i.e., a grade of C or better).

### *Curriculum Summary and Guide*

The criminology curriculum is a series of structured and integrated courses that must be taken in sequence.

<i>Year</i>	<i>Required Courses</i>	<i>Elective Courses</i>
1	Introduction to Sociology Core requirements Elective prerequisites	
2	Complete Core requirements and elective prerequisites Criminology White-Collar Crime Criminology Inquiry	
3	Classical Theories of Social Order Contemporary Theories of Social Order Gender and Crime	Electives
4	Law and State Comparative Criminology	Electives

### *Declaration of Major*

Students must successfully complete SOC 100J and CRM 215J with a grade of C or better in order to declare a major in criminology.

### *Transfer Students*

Transfer students and students contemplating transfer into the Criminology Department are urged to meet with the Department chair as early as possible for an evaluation of their progress and their requirements in the major.

Transfer students must also formally declare their major even though they enter with junior or senior standing.

Supplementary information is published each semester by the Criminology Department to assist students in planning their course schedules. The information includes a summary of major courses, listings, and descriptions of special courses, and general information for majors.

For more information, write to: Office Manager, Criminology Department, University of Southern Maine, 96 Falmouth Street, Portland, Maine 04103 or telephone (207) 780-4105.

### *Minor in Criminology*

The number of credit hours required for the minor is 18. These 18 hours are in addition to those required for a student's major. Courses cannot be used to fulfill both major and minor credit.

#### *Required Courses*

CRM	215J	Criminology
CRM	216	White-Collar Crime
CRM	220	Criminological Inquiry

Choose ONE of the following:

CRM 310	Classical Theories of Social Order
CRM 311	Contemporary Theories of Social Order
CRM 317	Gender and Crime
CRM 334	Law and State
CRM 400	Comparative Criminology

*Elective Courses*

Choose any TWO CRM courses.

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### **CRM215J Criminology**

This course focuses on the nature of crime and on problems concerning its measurement and distribution. The course examines some of the popular images of crime in the media and elsewhere, the creation and utility of official and unofficial crime statistics, and theories about the causes of crime. Prerequisite: SOC 100 with a grade of C or better. Cr 3.

### **CRM 216 White-Collar Crime**

This course provides an analysis of different criminological perspectives on white-collar crime, and focuses on some specific types of white-collar crime: occupational crime, corporate crime, syndicated crime, and political crime. Prerequisite: CRM 215J. Cr 3.

### **CRM 217 Crime in Maine**

An introduction to crime and penal policies in Maine, including official and unofficial crime statistics; common crimes; white-collar crimes; and selected aspects in crime control. The course presents interstate comparative analysis, and several guest lectures by Maine speakers. Prerequisite: CRM 215J. Cr 3.

### **CRM220 Criminological Inquiry**

This course is an introduction to methodological issues in criminology. The emphasis is on critical evaluation and application of the basic instruments of inquiry. Students will learn how to "do" criminology, as well as how to assess existing criminological literature. Prerequisite: CRM 215J. Cr 3.

### **CRM 222 Field Studies in Informal Social Order**

This course will study informal social order as the tacit framework for the formal legal order. This will be an empirical test of criminological theories introduced in CRM 215. Through different methods of field research, students will be asked to observe and analyze the informal order of legal institutions such as courtrooms, prisons, and police stations. Prerequisite: CRM 215J. Cr 3.

### **CRM 301 Criminological Theory**

This course focuses on the development of criminological theory from 1930 to present. The course is historical in nature and addresses such fundamental problems as why certain

behavior is defined as criminal, the causes of crime, and the consequences for the individual of being labeled as a criminal. Prerequisite: CRM 215J. Cr 3.

### **CRM 310 Classical Theories of Social Order**

This course will examine how the concept of social order and the invention of criminology arose simultaneously. Classical social theories of the Enlightenment and Modernity will be used to study the origin of the modern state and the criminalization of various social groups. Prerequisite: CRM 215J. Cr 3.

### **CRM 311 Contemporary Theories of Social Order**

This course is a continuation of CRM 310. After reexamining classical theories, the course will introduce students to contemporary theories of social order. The theoretical focus will be on crime and criminalization as forms of social action. Prerequisites: CRM 215J and CRM 310. Cr 3.

### **CRM 317 Gender and Crime**

This course concentrates on gender and its relation to crime. It explores such issues as histories of gender inequality, the gendered character of criminological theory, and how gender is related to a variety of crimes such as rape, violence in the family, crimes by women, property crimes, and corporate crime. Prerequisite: CRM 215J. Cr 3.

### **CRM 320 Film and Social Order**

The intent of this course is to engage in a cross-cultural study of the relationship of film to social order and crime. Films construct images about social reality. The ways in which these images present and interpret this relationship will be examined from various analytical standpoints, including ethno-methodology, semiology, and post-modernism. Prerequisite: CRM 215J. Cr 3.

### **CRM 325 Canadian Justice Policy**

This course will examine the way in which the Canadian justice system operates. While the focus is on criminal justice, issues of social justice such as equality rights, treatment of minorities, etc., will also be considered. Canadian-U.S. comparisons will be drawn throughout the course. Prerequisite: CRM 215J. Cr 3.

**CRM 334 Law and State**

This course will examine classical and contemporary approaches to understanding the role and form of law. This will include an examination of feminist theories of law and state and the place and utility of rights discourse. Prerequisite: CRM 215J. Cr 3.

**CRM 337 Youth Crime**

This course provides an overview of justice issues as they affect juveniles. Theoretical explanations for youth crime as well as the emergence of both "adolescence" and "delinquency" as socially constructed concepts will be examined. In general, the course adopts an historical approach to youth crime. Prerequisite: CRM 215J. Cr 3.

**CRM 340 Criminal Law**

This course offers students an intensive study and review of statutory law, case law, and criminal procedure. Substantive topics covered include responsibility; insanity; grand jury; 4th, 5th, 8th and 14th Amendment issues; pre-trial; trial; sentencing and appeals. Materials are drawn from U.S. Supreme Court and Maine Judicial Court opinions. Prerequisites: CRM 215J or permission of instructor. Cr 3.

**CRM 345 Criminology in Sweden**

This special summer course in Sweden provides students with the opportunity to live in, study, and experience another culture and to gain an understanding of crime, criminology, and social control in another country. Visits will be made to the police department and court system in Stockholm and to several prisons in other cities. Lectures will be provided by sociologists at the Criminology Institute at the University of Stockholm, as well as by a variety of lawyers, judges, and political party leaders. Offered Summer Session only. Prerequisite: CRM 215J. Cr 6.

**CRM 350 Topics in Criminology**

Specially developed courses exploring areas of interest and concern in depth. Among these topics currently considered are war crimes, race and crime, ethno-methodology, homicide, visual criminology, film and crime, self and crime, sexuality and crime, and social theories of non-

violence. May be repeated for credit. Prerequisite: CRM 215J. Cr 3.

**CRM 390 Independent Projects**

Individually or collectively arranged reading and/or research for juniors and seniors under the direction of a faculty member. May be repeated for credit. Prerequisites: CRM 215J and CRM 220. Cr 3.

**CRM 395 Internship**

The course is designed as a field experience/reflection opportunity for upper-level criminology majors with substantive background or coursework in the area of internship placement. It also provides a work/action experience and insight into professional roles in a variety of community agencies and organizations. The emphasis is on the application of social science perspectives, substantive knowledge, and methodologies to understand a particular organizational situation. In addition to field placement, students are expected to meet for a series of internship seminars, for which readings and reports will be required. In order to register for Internship, a student must have an overall GPA of 2.5 or better and a GPA of 3.00 or better in the major. Also, the student must have completed 53 or more credit hours by the end of the semester in which they register for the course. Contact Departmental internship coordinator for details. Prerequisites: CRM 215J and CRM 220. Cr 3-6.

**CRM 401 Comparative Criminology**

This course focuses on the application of U.S. criminological theory in cross-cultural contexts. Specific emphasis is given to the problems of cultural relativism and intellectual imperialism while providing an integrative senior experience for majors. Prerequisites: CRM 215J, CRM 220, and senior class standing. Cr 3.

**CRM 402 Senior Seminar**

This course is intended to furnish senior criminology majors with an opportunity to reflect on and integrate the material in their other major courses. Its focus is a major research project. The course combines individualized instruction, small group meetings, and seminars. Prerequisites: CRM 215J, CRM 220 and senior class standing. Cr 3.

# Economics

*Chair of the Department:* Joseph E. Medley, 316 Luther Bonney, Portland  
*Associate Professors:* Feiner, Goldstein, Hillard, Medley, Roberts

The undergraduate program in economics provides a broad preparation for a variety of careers as well as for graduate study in economics, business administration, or law. Economics is a social science and as such must be studied in the perspective of a broad training in the liberal arts and sciences. Within the economics program, courses are available in such fields as: economic analysis, international economics, and the economics of monetary and fiscal policy.

## *Program and Requirements*

The minimum number of credits (including the University's Core curriculum) required for the degree: 120.

Students entering the four-year economics degree program are classified as economics majors.

### *Core Curriculum Requirements (31 credits)*

#### Basic Competence

##### 1. English Composition (3 credits)

Students who fulfill the English Composition Competence of the Core curriculum without earning credits must complete 3 credits of electives from ENG or PHI electives.

##### 2. Skills of Analysis/Philosophy (3 credits)

##### 3. Quantitative Decision Making

This requirement may be fulfilled by taking a mathematics course stipulated below under the supplementary requirements.

#### Methods of Inquiry/Ways of Knowing

##### 1. Fine Arts

a. Performance-centered arts (3 credits)

b. History-centered arts (3 credits)

##### 2. Humanities

a. Literature (3 credits)

b. Other Times/Other Cultures (3 credits)

##### 3. Social Science (not to include ECO courses) (6 credits)

##### 4. Natural Science (4 credits)

##### 5. Interdisciplinary COR course (3 credits)

### *Supplementary Requirements (12 credits)*

MAT 110D Calculus for Business or MAT 152D/153

MAT 211 Probability

MAT 212 Statistics

An optional, more rigorous mathematics sequence is available to those students who desire it. They may take MAT 152D Calculus A and MAT 153 Calculus B instead of MAT 110D, but these students must still take MAT 211 and MAT 212. Successful completion of these math courses may satisfy Core curriculum requirements.

### *Basic Requirements for Economics (9 credits)*

ACC 201 Principles of Financial Accounting

ECO 201J Principles of Macroeconomics

ECO 202J Principles of Microeconomics

### *Major in Economics (27 credits)*

ECO 301 Intermediate Macroeconomics

ECO 302 Intermediate Microeconomics

ECO electives which may include GEO 303

### *General Electives (44 credits)*

## *Bachelor of Arts in Economics*

Core curriculum requirements as above.

Supplementary requirements (12 credits)

Students in this program are required to take MAT 110D, or MAT 152D/153, MAT 120D, and two from POS 101J, SOC 100J, and ANT 101J. Successful completion of either of the mathematics courses and of the two from POS 101J, SOC 100J, and ANT 101J courses will satisfy parts of the Core curriculum requirement.

Basic Requirements for Economics (6 credits)

ECO 201J Principles of Macroeconomics

ECO 202J Principles of Microeconomics

Major in Economics (27 credits)

ECO 301 Intermediate Macroeconomics

ECO 302 Intermediate Microeconomics

ECO Electives which may include: GEO 303

General Electives (50 credits)

*Minor in Economics*

A minor in economics is available to students in any major within the University. To gain admission, students must be in good standing at the University and submit an Economics Minor Authorization Form. The 21 credit hours below must be completed with at least a 2.00 accumulative grade point average: ECO 201J; ECO 202J; ECO 301; ECO 302; either MAT 120D, or MAT 212, or MAT 362; and six additional credits of 300-level or above ECO electives.

*Minor in Mathematics*

In cooperation with the Department of Mathematics, a minor in mathematics is available to all economics majors. The optional mathematics minor is: 21 credit hours (not to include statistics courses), with 12 of the credit hours in MAT 152D, 153, and 252. The remaining 9 credit hours are to be selected from the following: MAT 290, MAT 352, MAT 354, MAT 366, MAT 380, MAT 460; COS 260.

**ABU 101 Principles of Economics I**

A theoretical analysis of the basic characteristics, institution, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. (Cannot be applied toward Core curriculum requirement in Social Science.) Cr 3.

**ABU 102 Principles of Economics II**

A theoretical analysis of the firm, and its role in the transformation of scarce economic resources into the goods and services demanded by consumers. Industry competition and monopoly factors are the focus of microeconomics. (Cannot be applied toward Core curriculum requirement in Social Science.) Cr 3.

**ECO 100J Introduction to Economic Ideas and Issues**

An introduction to basic economic ideas, issues, and theories for non-majors. The course surveys microeconomic and macroeconomic theories and analyzes current topics and problems of the economy. Cr 3.

**ECO 201J Principles of Macroeconomics**

An analysis of the basic characteristics, institutions, and activities of modern market economies. Topics discussed include inflation, unemployment, government monetary and fiscal policy, full employment and economic growth. Cr 3.

**ECO 202J Principles of Microeconomics**

Introduction to the analysis of individual markets: the functioning of prices in a market econ-

omy, economic decision making by producers and consumers, and market structure. Topics discussed include consumer preferences and consumer behavior, production theory and production costs, the monopoly firm, and resource pricing. Additional topics are determined by individual instructors. Cr 3.

**ECO 301 Intermediate Macroeconomics**

A theoretical analysis of the basic forces that cause inflation, growth, and fluctuations in economic activity. The effects on employment and other factors are thoroughly treated. Stabilization policies are examined and evaluated. Prerequisites: ECO 201J, ECO 202J. Cr 3.

**ECO 302 Intermediate Microeconomics**

Analysis of individual markets, choice, and exchange theory: the functioning of prices in a market economy, rational decision making by consumers and producers, cost and production analysis, market structure, and theory of public goods and market failures. Prerequisites: ECO 201J, ECO 202J. Cr 3.

**ECO 305 Mathematical Economics**

This course will cover the development and application of contemporary quantitative methods to the analysis of economic theory. These tools will be developed within the framework of economic models. Prerequisites: ECO 201J, ECO 202J; MAT 109D and 110D or MAT 152D and MAT 153, and junior standing. Cr 3.

**ECO 306 Econometrics**

Econometrics is a special field of economics in

which models are used to test the validity of hypothesized theoretical relationships against actual data. Econometric forecasting and simultaneous equation estimation will be discussed. Prerequisites: ECO 201J, ECO 202J, MAT 212, and junior standing. Cr 3.

### **ECO 310 Money and Banking**

This course examines the structure and operation of the financial system with major emphasis on commercial banking; reviews the structure of the Federal Reserve System and analyzes the tools of policy; develops alternative monetary theories; and discusses major issues in monetary policy. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 315 Political Economy**

This course provides an overview of various perspectives on the U.S. economic system, its dynamics, problems, and its relation to the political sphere. Topics may include: inequality and discrimination; growth and the environment; military spending, productivity and growth; and policies for the future. Prerequisites: ECO 201J. Cr 3.

### **ECO 320 Labor Economics**

This course emphasizes the application of economic analysis and concepts to a variety of labor problems such as the supply and demand for labor, wage determination, wage differentials and structures, and wages and inflation. In addition, there will be a brief review of the evolution of the American labor movement and public policy toward labor. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 322 Economics of Gender and Discrimination**

This course examines the very different post-war economic experiences of women, men and minority groups, for example, their differential access to high-paying jobs and career ladders in labor markets. The class will assess a range of theories designed to explain these differences. In addition, students will consider the effectiveness of a variety of public policies designed to create greater labor market equity. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 325 Industrial Organization**

This course investigates theories relating industrial structure to company conduct and performance. Case studies from the U.S. economy will be used to illustrate important developments in the 1970s and 1980s – internationalization, technological change, and competitiveness problems. Prerequisites: ECO 201, ECO 202. Cr 3.

### **ECO 330 Urban Economics**

This course introduces the study of urban economics through a conceptual and historical background for analyzing the urban economy,

and outlines basic theoretical models of urban conditions and applications to several most urgent urban problems. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 340 History of Economic Thought**

A survey of the development of basic economic principles and theories from pre-industrial times to the present. Major emphasis is on the Classical School (Smith, Ricardo, and Malthus), and its critics, the development of the Austrian School, the synthesis of Neo-Classicism, and the emergence of macroeconomics. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 350 Comparative Economic Systems**

The structures and operating principles of the major contemporary economic systems are examined and compared. Prerequisites: ECO 201J. Cr 3.

### **ECO 351 Economic System of the Former Soviet Union**

A study of the development, institutions, and structure of the former U.S.S.R. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 360 Economic Development**

The theories and practices of interregional and international economic development. Special attention is given to developmental problems of emerging nations. Prerequisites: ECO 100J or ECO 201J. Cr 3.

### **ECO 361 Case Studies in International Development**

This course provides case studies of the issues, problems, and policies of economic development. The development experience of various countries is examined in a comparative context. Prerequisites: ECO 100J or ECO 201J. Cr 3.

### **ECO 370 International Economics**

Analysis of international markets and exchange theory, functioning of prices in the international economy, international finance, tariffs, quotas, and other instruments of international economic policy. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 380 Public Finance and Fiscal Policy**

Public expenditure theory; principles of taxation; the federal budget and alternative budget policies; federal tax policy; fiscal policy for stabilization; federal debt. Prerequisites: ECO 201J, ECO 202J. Cr 3.

### **ECO 381 State and Local Public Finance**

Development of the federal system; fiscal performance; intergovernmental fiscal relations; state and local revenue systems; budgetary practices; state and local debt. Prerequisites: ECO 201J, ECO 202J. Cr 3.



**ECO 385 U.S. Economic Policy**

This course examines currently perceived problems of the U.S. economy. A range of views of these problems and associated policy proposals are considered including: free market, traditional monetary and fiscal, as well as new policy approaches. Prerequisites: ECO 100J or ECO 201J. Cr 3.

**ECO 399 Special Topics in Economics** Cr 3.**ECO 450 Readings in Economics**

A series of readings and discussions of impor-

tant books of a socio-economic and politico-economic nature books with which the well-informed economics major should be familiar but which, due to time constraints, have not been integrated into the study hours of economics. Cr 3.

**ECO 490 Independent Readings and Research in Economics**

Independent study and research of various student-selected areas of economics. Prerequisites: A completed independent study form. Cr 1-3.

## English

*Chair of the Department:* Dianne Sadoff, 3 Luther Bonney, Portland

*Professors:* Ashley, Carper, Gish, Jaques, Rosen, Sadoff, Slavick; *Associate Professors:* Abrams, Benedict, Carner, Coffin, Gilmore, McGrath, Peters, Reuter, Rusch, Selkin; *Assistant Professors:* Cole, Swartz

In the study of literature, students learn to appreciate the possibilities of language for serious and often moving expression. Through writing practice, students learn to use language effectively.

The USM English major is designed to lead students toward a sensitive understanding of English, American, and other literature written by men and women of the past and present who have memorably expressed their personal visions and the ideas of their times. It is structured to provide insights into critical and theoretical problems encountered by all who wish to view literature from diverse perspectives. The major also provides students with the opportunity to participate in the creative process, developing their talents through courses and workshops in writing fiction, poetry, and drama.

Literature courses offered in the Women's Studies Program and the Foreign Languages and Classics Department enhance the English major. An Internship in Professional Writing helps students work locally to develop skills as writers, editors, and reporters. Also, USM's foreign exchange programs and the Department's own exchange program with Nijmegen University in The Netherlands offer rewarding opportunities for studying abroad.

English majors have careers in many areas, usually in business, teaching, and other professions. More and more majors are entering medical, law, and academic graduate schools, having found that the breadth of experience English study provides prepares them to work successfully in diverse fields. USM English majors have been strong candidates for admission to the country's finest graduate English programs.

Students not majoring in English who want to satisfy the Humanities Core curriculum requirement in English should begin with English 120H, except when English 120H is waived. Courses numbered below 120 cannot be used to satisfy the Humanities Core curriculum requirement.

### Programs and Requirements

#### *Bachelor of Arts*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 48.

The English major begins with a course in writing (100 or 101) and an introduction to the study of literature (120). The student then selects more advanced English courses (and up to 6 credits in approved courses of other departments) to complete the 48-credit major requirement.

While the Department does not require courses in other disciplines, majors are strongly advised to develop a reading proficiency in a foreign language, particularly if they envisage applying to graduate programs.

English majors must meet the following English Department requirements. All courses must be passed with a grade of C- or better and six hours with a grade of B or better. Within the first 2 1/2 years, majors should have completed not only ENG 120 and ENG 245, but also ENG 262 and 263 or 264 (genre courses) and a Classical or Biblical Backgrounds course.

1. ENG 100C or 101C or waiver; ENG 120H (0 credits toward major)

2. Introduction for Majors (6 credits required)

ENG 245 Introduction to Literary Studies, and at least one 200- or 300-level genre course in poetry, fiction, or drama other than Shakespeare.

ENG 245 is a prerequisite or corequisite for all 200- and 300-level literature courses; the student may therefore not enroll simultaneously in ENG 245 and courses beyond the 200 level.

3. Writing Courses (3 credits required)

ENG 306 Business and Report Writing and ENG 307 Technical Writing may not be used to satisfy this requirement.

4. Classical and Biblical Backgrounds (3 credits required)

5. Linguistics and Related Courses (3 credits required)

6. Criticism Courses (3 credits required)

7. Major Figures (6 credits required)

The two major figures courses should be selected as follows: 3 credits from Shakespeare (ENG 360 or 361); 3 credits from Chaucer (ENG 351), Milton (ENG 356), or another major figure or figures course.

8. Periods of Literature Courses (15 credits required)

At least one course from *five* of the following six areas is required: Continental and World Literature; Medieval Period; Renaissance; Neo-classical and Romantic Periods; 19th-Century British and American Literature; Modern Literature. Major figures courses other than Shakespeare also fulfill Periods of Literature requirements.

9. Electives (credits in English and other approved courses numbered 200 and above to complete the 48-credit major required)

10. A senior seminar is required of all graduating majors.

*Note:* The requirements of the English major program may be waived in exceptional cases in favor of a Self-Designed Major that is approved in advance by the English Department Curriculum Committee.

### *Prerequisites and Course Waivers*

ENG 100C or 101C, or an equivalent or waiver, is a prerequisite for any English language or literature course, including ENG 120H; ESL 100C serves non-native speakers of English. For English-major and general-interest courses numbered 130 to 199, ENG 100C or 101C (or an equivalent or waiver) and ENG 120H or permission of the instructor are prerequisites. For courses numbered 200 to 299, prerequisites are ENG 100C or 101C (or an equivalent or waiver), and ENG 120H (or an equivalent or waiver). All 300- and 400-level courses have the additional prerequisite of ENG 245 Introduction to Literary Studies. Certain advanced courses, as indicated in the course listings, and all Independent Study courses require the instructor's permission.

*Note:* Non-majors and students with special interests are encouraged to seek the instructor's permission to take any course for which they feel qualified. ENG 120H may be waived for a few exceptional students who pass a qualifying examination administered by the English Department, and for transfer students with certain literature course credits.

### *Semester Course Guides*

Every semester the Department publishes a course guide which gives more detailed information, including texts and writing requirements, than the catalog can accommodate. Students are urged to get a copy of the guide in the English Office.

### *The Honors Degree in English*

For a B.A. degree in English with honors, a student must achieve a B+ or better average.

### *Minor in English*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

The Department offers an English minor which requires 18 credits of upper-level courses in a program planned with an English faculty advisor and approved by the director of English Minor Programs. The goal of the program is to give students not simply a collection of courses, but a coherent experience with English courses chosen to suit their needs and interest, whether in literature generally, creative writing, American literature, language and composition, or another area of study.

Each program must meet these specific requirements beyond ENG 100C/101C and ENG 120H (or waivers); a 200- or 300-level writing or language/linguistics course; three 200- or 300-level literature courses (one must focus on literature before 1800, one after 1800); one 300- or 400-level course that examines in depth a particular writer or writers, or a particular subject.

Further information about the minor is available in the English Department office.

### *Internships, Job Opportunities, and Exchange Programs*

Students of English are encouraged to take advantage of a variety of internship opportunities as part of their program. Internships allow academic credit for work experiences that use and enhance English skills. Also, students are invited to discuss job opportunities for those with training in English.

English majors are encouraged to apply for semester or year-long exchanges in English departments at King Alfred's College, Winchester, the London Program, or Nijmegen University, The Netherlands.

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#### **ENG 100C College Writing**

Classes meet regularly to analyze professional and student writing as a way of sharpening awareness of how to use language effectively. The writing assignments encourage students to apply the principles discussed in class to their own work. This course cannot not be used to satisfy a humanities requirement. Prerequisite: writing proficiency. Every year. Cr 3.

#### **ENG 101C Independent Writing**

English 101C is offered as an alternative to English 100C for students who prefer to define their own writing goals and work toward them with the instructor's guidance. Classes meet regularly for the first few weeks of the semester and occasionally thereafter, but the course is conducted primarily in weekly individual conferences. Independent Writing is not a remedial course; it addresses writing mechanics to some extent, but emphasizes style, organization, and development. The major challenge of the course is the self-discipline the students will need to work independently. Prerequisite: writing proficiency. Students who have taken ENG 100C or an equivalent course must have the instructor's permission to take ENG 101C. Every year. Cr 3.

#### **ENG 102 Term Paper Writing**

This course will teach the student to write a research paper. The choice of subjects will be worked out by instructor and student. The student

will learn how to develop a topic, prepare a working bibliography, become familiar with library resources, take notes in an orderly and meaningful fashion, and then write a final paper after having polished a number of rough drafts. Cr 1.

#### **ENG 110E Straight and Crooked Thinking**

The analysis, interpretation, and evaluation of various kinds of arguments and ways to reach logical decisions, with critical tracts, speeches, literary essays, scientific papers, and magazine articles. This basic course employs a new non-symbolic approach to practical reasoning expressed in natural language; its emphasis is on direct application to realistic cases. Exercises and readings are designed to aid undergraduates in reports, essays, and term papers. The materials for critical analysis have a broad appeal for future lawyers, administrators, executives, business people, and scholars. Regular oral reports; brief written exercises in critical reasoning and analysis; final examination based on actual specimens of contemporary argument. Prerequisite: ENG 100C/101C or permission of instructor. Cr 3.

#### **ENG 120H Introduction to Literature**

A general introduction to the various literary genres—poetry, the short story, drama—which will include a study of critical terminology, close textual reading, and practice in writing. Prerequisite: ENG 100C or 101C or waiver. Every year. Cr 3.

**ENG 131 The Literature of Business**

The drama of business as reflected in the fiction of important writers like Twain, Norris, Dreiser, and Warren. The course will focus on significant moments and problems in America's economic history and on the way these have been represented by writers who have concerned themselves with subjects like the exploitation of the West, the Robber Barons, manipulation in the stock market, and cycles of economic euphoria and disillusionment. Cr 3.

**ENG 150 Topics in Literature**

A selection of courses varying in content from term to term. Under consideration for coming semesters: Utopian Literature, Radicalism and Revolt in Fiction, Feminism in the World Novel, Native American Literature, Popular Semantics, and Literature of the 60s. Descriptions of current offerings are available in the English offices. More than one section may be taken for credit. Cr 3.

**ENG 245 Introduction to Literary Studies**

This is a required course for all English majors. It may be taken concurrently with other 200-level courses in the Department but is a prerequisite for all 300- and 400-level courses except those in creative writing. The course will have a double focus. Students will be introduced to a variety of methodologies important to an insightful analysis of literature and other cultural texts. They will also learn research procedures and techniques of effective critical writing. Cr 3.

**ENG 262 Poetry**

An intensive course in the close reading of many of the most significant poems in English. Attention will be given to important elements of poetry, including versification and the use of metaphor; characteristics and conventions of poetry written in different periods, early and contemporary, will also be explored. Every year. Cr 3.

**ENG 263 Fiction**

A survey of various forms and techniques of fiction, typically beginning with oral storytelling and traditional tales, but concentrating on types of narrative developed in the nineteenth and twentieth centuries, e.g., symbolic realism, the fable, magical realism, metafiction, and other experimental forms. The course also examines the distinction between "fiction" and "non-fiction" and between "literature" and popular genre fiction. Every year. Cr 3.

**ENG 264 Drama**

Significant representative plays from several periods, including the contemporary, will be studied. Conventions of stagecraft at different points in the drama's history will be explored, and attention will be given to how dramatic and literary techniques, like the use of action, stage effects, and dialogue, contribute to the often profound meanings that plays can convey. Every year. Cr 3.

*Writing Courses***ENG 201F Creative Writing**

An introduction to the principles and practice of writing fiction, poetry, and drama. Emphasis is on fresh observation and meaningful selection of concrete details and their uses in the different genres. Recommended for beginners. Prerequisites: ENG 100C or 101C and ENG 120H. Every year. Cr 3.

**ENG 300F Fiction Writing**

A course for those who have already, in a course such as Creative Writing or on their own, written several pieces of fiction and are ready for more advanced work. Emphasis will be on writing well-developed short stories and on understanding the basic elements of fiction. A better-than-average competence in using English is required. Suggested preparation: ENG 201F. Every year. Cr 3.

**ENG 301F Poetry Writing**

A course for those who, in a creative writing course or on their own, have developed basic skills of careful, thoughtful observation and a preference for concrete details to convey emotional meaning, and who are interested in

developing a sense of how poetry has been written in the past by major poets and how it is being created in the present. Emphasis will be on imitation of past and present writers and exercises that stress the elements of poetry, as well as on the development of personal approaches. Suggested preparation: ENG 201F. Every year. Cr 3.

**ENG 302F Fiction Workshop**

An advanced course requiring the completion of short stories or a substantial part of a novel. Prerequisites: ENG 300 and instructor's permission. May be repeated for 3 additional credits with instructor's permission. Cr 3.

**ENG 303F Poetry Workshop**

A course for advanced students who, after experimenting with different approaches and styles, are developing their own themes and voices as poets. Work toward a completed chapbook-length manuscript or portfolio of poems will be the basis for the course grade. Prerequisite: ENG 301F or instructor's permission. May be repeated for 3 additional credits with instructor's permission. Cr 3.

**ENG 304 Playwriting**

A lecture-practicum course designed to acquaint the student with playwriting principles. Emphasis is placed on the one-act play form. Students will be required to complete a series of creative exercises culminating with writing a one-act play. Prerequisite: THE 150H. This course is also listed as THE 250. Cr 3.

**ENG 305 Advanced Essay Writing**

Study of various forms of discourse with concentration on exposition. Provides experience in logical analysis and in the uses of persona, appeals to the reader, stylistic and fictional devices, and other strategies. Prerequisite: a grade of B in ENG 100C or 101C, or permission of the instructor. Every year. Cr 3.

**ENG 306 Business and Report Writing**

Primarily for juniors and seniors majoring in business administration. Training in clear and effective writing of formal reports, business

communications, and related materials. Every year. Cr 3.

**ENG 307 Technical Writing**

A skills course to prepare students for writing technical communication required in business, industry, or government occupations. Students will learn how to design technical reports by following a systematic procedure or writing process. Audience analysis, statement of purpose, selection and arrangement of report materials, text preparation, and editing procedures will be mastered in the writing of technical business letters, memoranda, and informal and formal reports. In addition to written assignments, students will give an oral report at the conclusion of the course. Prerequisite: ENG 100C. Cr 3.

**ENG 400 Independent Study in Creative or Expository Writing**

By instructor's permission. See department for application form. Cr var.

*Journalism Courses***ENG 309 Newswriting**

This course includes news and feature writing with intensive practice in journalistic-writing techniques, accuracy, judgment, and style. Every year. Prerequisite: ENG 100C/101C. Cr 3.

**ENG 310 Advanced Newswriting**

A continuation of Newswriting. Every year. Cr 3.

**ENG 409 Internship in Professional Writing**

By application to the department and arrangement with campus or local newspaper or jour-

nal. Prerequisite: ENG 309 or 310, or permission of department. Cr 3.

**ENG 410 Independent Study in Journalism**

By instructor's permission. See department for application form. Cr var.

**NOTE: ENG 245 Introduction to Literary Studies** is a prerequisite for all 300-level literature courses for students entering USM in this catalog year.

*Classical and Biblical Backgrounds***ENG 315 Ancient Masterpieces**

A study of selected major works of classical times which will provide students with a background for understanding the most influential books of our culture. Included are Homer, Plato, Greek dramas, Virgil. HON 101 The Ancient World satisfies the English Department requirement for this course. Every year. Cr 3.

**ENG 316 The Bible**

The Bible, arguably the single most influential work (or group of works) in Western culture, will be studied as a literary text, with emphasis on the books that have had the greatest literary influence (e.g., Genesis, Exodus, Psalms, Job, the Gospels). The course may also discuss the history of the text, problems of translation, and/or influence. Every year. Cr 3.

**CLA 283H The Epic Hero in Ancient Literature**

Intensive readings in English translations of *Gilgamesh*, *Iliad*, *Odyssey*, *Argonautica*, *Aeneid*; discussion, papers. Cr 3.

**CLA 284H The Tragic Hero in Ancient Literature**

Intensive reading of selected plays in English translation by Aeschylus, Sophocles, Euripides, Seneca; discussion, papers. Cr 3.

The following Foreign Languages and Classics courses carry English major credit as electives. Note that these courses cannot count both toward the English major and toward the Core curriculum requirement.

- CLA 285I Classical Mythology
- CLA 291I The Golden Age of Greece
- CLA 292I Rome, from Republic to Empire
- FRE 283H Contemporary French Thinkers
- GER 281H The German Novelle
- RUS 281H Russian Literature in English Translation
- SPA 281H Masterpieces of Spanish American and Brazilian Literature

For descriptions, see Foreign Languages and Classics section of this catalog.

Up to six hours of specific courses offered by such other CAS departments as History, Theatre, and Philosophy may be elected for

English major credit. Certain Honors Program courses also may be counted as English major electives.

### *Linguistics and Related Courses*

#### **ENG 330 History of the English Language**

This course includes a survey of the prehistory of the language as well as a detailed study of the Old, Middle, and Modern English and the forces which shaped these stages. Some methods of modern linguistic science are utilized in examining current usage. Change and development of the language are emphasized. Every year. Cr 3.

#### **ENG 331 Modern Grammars**

Designed to acquaint students with the three most common forms of English grammatical analysis: traditional, structural, and transformational. The mechanics of the various analyses will be examined, and comparisons will be made to determine what tentative combination best explains the structure of English. 2 year cycle. Cr 3.

#### **ENG 332 Introduction to Linguistics**

A general introduction to modern linguistic science, including studies in the development of language, phonology, morphology, the dictionary, and varieties of English usage. Also examined are the various grammatical philosophies and their methods—traditional, structural, and transformational. 2 year cycle. Cr 3.

#### **ENG 333 Structural Linguistics and Culture**

The course analyzes the languages and culture (art, religion, poetry) of pre-literate societies, particularly the American Indian. Cr 3.

#### **ENG 334 Semantics**

Interpretation of literature by means of analysis

of the language used. Recommended for prospective teachers of literature and English. 2 year cycle. Cr 3.

#### **ENG 335 Discovering Grammatical Structure**

This course prepares the student to find and understand the grammar and structure of any language. Includes work in American Indian languages, such as Passamaquoddy of Maine, and Maine Indian place names. 2 year cycle. Cr 3.

#### **ENG 336 Old English Language and Literature**

An introduction to the grammar of English in the earliest period, 700-1050. The first several weeks concentrate on grammar and train students to translate elementary prose (*Apollonius, the Anglo-Saxon Chronicle*, etc.). Later weeks introduce the students to alliterative poetry. Students will translate "The Dream of the Rood," "The Seafarer," and passages from *Beowulf*. 2 year cycle. Cr 3.

#### **ENG 430 Independent Study in Linguistics**

By instructor's permission. See department for application form. Cr var.

#### **ENG 431 Seminar in Linguistics**

An advanced course focusing on specialized problems in language study. Emphasis is on the application of various scholarly approaches to important, limited subjects. Cr 3.

### *Criticism Courses*

#### **ENG 340 History of Literary Criticism**

A study of the great literary critics, their methods and approaches, from Plato and Aristotle to the present day. Among the many figures included are Sidney, Johnson, Coleridge, Arnold, and T.S. Eliot. 2 year cycle. Cr 3.

#### **ENG 341 Contemporary Critical Theories**

An introduction to major schools of literary criticism developed in the twentieth century. Emphasis is placed on identifying points of agreement and divergence between various theories and methods for interpreting literature. Specific theories to be studied may include (but are not limited to) structuralism, psychoanalytic theory, Marxist criticism, deconstruction, feminist theory, and the new historicism. Every year. Cr 3.

#### **ENG 342 Topics in Contemporary Theory**

This course studies in-depth selected theoretical approaches to literature. It will focus either on a single current theory or, through a comparative method, two to three different theories (e.g., structuralism and formalism, Marxism and cultural criticism, or deconstruction and feminism). Cr 3.

#### **ENG 440 Independent Study in Criticism**

By instructor's permission. See department for application form. Cr var.

#### **ENG 441 Seminar in Literary Criticism**

An advanced course focusing on specific problems or historical movements in literary criticism. Emphasis is on applying various scholar-

ly approaches to important, limited subjects. Typical subjects might be myth and myth criticism, psychoanalytic theory as myth; feminist

criticism and the canon; gender and genre studies; literary criticism and social authority. Cr 3.

### *Continental and World Literature*

#### **ENG 320 Continental Masterpieces**

A study of some of the masterworks of medieval and renaissance culture, including Dante's *Divine Comedy* and Cervantes' *Don Quixote*. Every year. Cr 3.

#### **ENG 321 Dante**

This course on Dante and his poetic milieu begins with the troubadour poets of Provence and Sicily, then considers the Italian "stilnovisti" (Guinizelli and Cavalcante), and finally turns to Dante's major poems and literary criticism. Texts used will be bilingual so that reference can be made to the Italian originals of Dante's work. 2 year cycle. Cr 3.

#### **ENG 322 Modern Autobiography**

The concept of the self has undergone critical changes in the history of autobiography. Many modern autobiographical writers have completely dispensed with traditional notions of the self, expanding the genre and giving it a strong literary focus. By comparing a selection of autobiographical texts by modern authors like Rilke, Stein, Barthes, and H. D. with more traditional forms of autobiography, the course investigates the historical vicissitudes in the conceptualization of a "self." 2 year cycle. Cr 3.

#### **ENG 324 Arthurian Romance**

A survey of medieval romances (originally written in English and continental languages) concerned with King Arthur and his knights and the social values represented by the Round Table. Students will examine romance as a literary genre and Arthur as a mythological and historical figure. Texts will include (but are not limited to) the Arthurian romances of Chretien de Troyes, a version of the Tristan legend, *Sir Gawain and the Green Knight*, and *Malory's Morte Darthur*. Later treatments of the Arthurian material may also be discussed. Non-English and regional Middle English texts are taught in translation. 3 year cycle. Cr 3.

#### **ENG 325 Medieval Epic and Romance**

The development of medieval traditions of epic and romance with readings of major works from England, Germany, France, Spain, and Italy (in translation). 3 year cycle. Cr 3.

#### **ENG 326 Satire**

A study of the principles of satire to define satire as a mode. The course focuses on various literary genres from classical through the modern era and, to a lesser extent, in film and

graphic arts, emphasizing works selected from such prominent satirists as Aristophanes, Petronius, Boccaccio, Chaucer, Erasmus, More, Rabelais, Ben Jonson, Swift, Pope, Austen, Burns, Breughel, Hogarth, and others. 3 year cycle. Cr 3.

#### **ENG 327 Modern Short Story: Themes and Methods**

Detailed consideration of from six to ten short story collections reflecting contemporary themes and narrative methods. Although selections will vary, the recent reading list has included Jorge Luis Borges, Franz Kafka, Anton Chekhov, James Joyce, Thomas Mann, Virginia Woolf, and Isaac Babel. A necessarily wide range of themes is confronted: the corruption of reality by dream; personal inadequacy, alienation, and paranoia; self-deceit; varieties of ignorance and cowardice; the moral insight afforded the artist; violence as a mode of self-discovery. Prerequisite: junior class standing or permission of the instructor. 2 year cycle. Cr 3.

#### **ENG 328 Modern Novel: Themes and Methods**

Works by six or more distinguished novelists expressing contemporary subject matter and technique. Among representative themes students will consider those of dream and illusion, revolution and personal revolt, alienation and anxiety, crime and self-assertion; among narrative techniques, ellipsis and adaptations of stream-of-consciousness. The list of novelists will vary, but recent assignments include Knut Hamsun, Franz Kafka, Thomas Mann, Herman Hesse, Andre Malraux, D. H. Lawrence, James Joyce, and Christina Stead. Prerequisite: junior class standing or permission of the instructor. 2 year cycle. Cr 3.

#### **ENG 329 Modern Drama**

A survey of modern English and Continental dramatists who have had a revolutionary impact on the modern theater. Authors to be considered might include Buchner, Strindberg, Ibsen, Pirandello, Brecht, Ionesco, Beckett, and Pinter. The course will emphasize the experience of drama as much as possible by viewing video productions of several plays. Every year. Cr 3.

#### **ENG 420 Independent Study in Comparative Literature**

By instructor's permission. See department for application form. Cr var.

**ENG 421 Seminar in Comparative Literature**  
An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical

and scholarly approaches to important, limited subjects. Typical subjects: Continental humanism, Dante, Continental influences on English literature. Cr 3.

### Medieval Period

**ENG 350 Medieval English Literature**  
A survey of genres popular from the twelfth to the fifteenth centuries (including debates, lyrics, romances, allegories, drama), with emphasis on the literature of fourteenth-century England. Major readings will include Chaucer's *Troilus*, the *Pearl*, and *Sir Gawain and the Green Knight*. 3 year cycle. Cr 3.

the mystery cycles, produced by civic and guild pride in the 15th century. Attention will be paid to the aesthetic and theological principles underlying this conjunction of farce and high seriousness in the plays as well as to distinctly medieval techniques of staging and production. 3 year cycle. Cr 3.

**ENG 351 Chaucer and the Medieval World**  
An exploration of Chaucer's historical, philosophical, and literary world through his major comic narrative, *Canterbury Tales*. Every year. Cr 3.

**ENG 450 Independent Study in Medieval Literature**  
By instructor's permission. See department for application. Cr var.

**ENG 352 Medieval Drama**  
This course will introduce the theatre of the medieval world, which ranges from the liturgical, ritual drama of the church, to the morality plays, performed by traveling companies, and

**ENG 451 Seminar in Medieval Studies**  
An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Cr 3.

### Renaissance

**ENG 355 The English Renaissance**  
A study of the principal writers of the English Renaissance exclusive of Shakespeare, with emphasis on major figures like Spenser, Donne, and Milton, but with some attention to other figures. Every year. Cr 3.

**ENG 455 Independent Study in Renaissance Literature**  
By instructor's permission. See department for application form. Cr var.

**ENG 356 Milton**  
Study of Milton's major poetry and selected prose with attention to critical and historical background. Every year. Cr 3.

**ENG 456 Seminar in Renaissance Studies**  
An advanced course focusing on individual writers, or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects: the metaphysical poets, Elizabethan prose fiction. Cr 3.

**ENG 357 British Drama to 1642**  
Shakespeare's predecessors, contemporaries, and followers to 1642. 3 year cycle. Cr 3.

### Shakespeare

**ENG 360, 361 Shakespeare**  
ENG 360 and 361 each feature close reading of five to seven Shakespearean plays, and focus attention both on theatrical and philosophical meanings. The division of plays within the two courses is largely arbitrary. Its intent is to permit students to take a second course in Shakespeare without repeating the readings of the first course. Neither course is introductory or prerequisite to the other. The main difference is that ENG 360 often includes a section on Shakespeare's history plays, while ENG 361 includes a section on Shakespeare's "romances" (dramatic fairy tales). Both courses include tragedies and comedies. Each course: Cr 3.

**ENG 460 Independent Study in Shakespeare**  
By instructor's permission. See department for application form. Cr var.

**ENG 461 Seminar in Shakespeare Studies**  
An advanced course in Shakespeare which emphasizes the application of various critical and scholarly approaches to important aspects of the poet and dramatist's work. Typical subjects: allegorical elements in Shakespeare's plays, Shakespeare and the daemonic. Cr 3.



**ENG 365 Eighteenth-Century Literature**

A study of major works in the Restoration and eighteenth century with attention to their cultural and historical contexts. Although the specific content of this survey course will change from year to year, emphasis will be placed upon representative figures such as Behn, Dryden, Heywood, Defoe, Richardson, Swift, Pope, Montague, Fielding, Lennox, Johnson, and Burney. Cr 3.

**ENG 366 Studies in the Eighteenth Century**

The purpose of this course is to examine in some detail an important relationship between literature and culture in the Restoration or eighteenth century. Typical topics include The Quarrel Between the Ancients and the Moderns; Otway and Domestic Tragedy; The Literature of Travel; The Eighteenth-Century Sublime; The Gothic Novel; Periodicals and Popular Culture; The Emergence of Criticism; Shaftesbury to Burke. Although English 365 is not a prerequisite, it is recommended. Cr 3.

**ENG 369 The Earlier English Novel**

The principal novelists from Defoe through Smollett and Burney. 2 year cycle. Cr 3.

**ENG 371 Major Romantic Writers**

A study of the major British poets of the Romantic period (1790-1832). Readings will be selected from among the works of Blake, C. Smith, Wordsworth, Coleridge, Clare, Keats, Byron, and Shelley. 2 year cycle. Cr 3.

**ENG 373 Topics in Romanticism**

The course will explore themes and issues unique to the Romantic period, a time of unprecedented change in literature, the arts, and society. Although the content of the course will vary from semester to semester, it will general-

ly include a mixture of literary and cultural forms, including poetry, fiction, nonfictional prose, painting, and drama. Possible themes will include Women and Romanticism; Romantic Writing and the French Revolution; Romanticism and Popular Culture; Forms of Romantic Autobiography; Romantic Fiction. 2 year cycle. Cr 3.

**ENG 381 Colonial American Literature**

A study of early American writers of religious prose, fiction, and poetry. A course in early American history is recommended background. Cr 3.

**ENG 465 Independent Study in the Neoclassical Period**

By instructor's permission. See department for application form. Cr var.

**ENG 466 Seminar in Neoclassical Studies**

An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects: Swift, the poetry of Alexander Pope, Thomas Gray, and the poets of sensibility. Cr 3.

**ENG 470 Independent Study in the Romantic Period**

By instructor's permission. See department for application form. Cr var.

**ENG 471 Seminar in Romantic Studies**

An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects: William Blake, the Gothic novel, Wordsworth and Coleridge. Cr var.

*Nineteenth-Century British and American Literature*

**ENG 375 The Victorian Novel**

The principal novelists from Austen to Hardy. 2 year cycle. Cr 3.

**ENG 376 Eminent Victorian Writers**

Major writers of the Victorian era, such as Emily Bronte, Tennyson, Browning, Arnold, Dickens, George Eliot, Ruskin, Pater, Hardy and Wilde. 2 year cycle. Cr 3.

**ENG 377 Victorian Poetry and Prose**

A study of the major poets and non-fiction prose writers of the Victorian period, such as Tennyson, the Brownings, Arnold, the Rossetis, Meredith, Morris, Swinburne, Hopkins, Hardy, Carlyle, Newman, Ruskin, and Pater. 2 year cycle. Cr 3.

**ENG 378 The Novel of Self-Development**

Originally developed in German literature, the novel of self-development or *Bildungsroman* depicts an adolescent male who eventually acquires a philosophy of life based on his conscious effort to gain personal culture. The course investigates the changes the idea of *Bildung* underwent at the hands of various authors in the 19th and early 20th centuries in their adaptation of the original form, including the revision of selfhood to address the *Bildung* as a female as well as a male province. Works to be considered include Goethe's *Wilhelm Meister's Apprenticeship*, Bronte's *Jane Eyre*, Dickens' *David Copperfield*, and Joyce's *Portrait of the Artist as a Young Man*. 2 year cycle. Cr 3.

**ENG 379 Earlier Women Writers**

The aim of this course is twofold, to introduce students to the wealth of major works by women writers and to consider in detail the voices of women on women and society. Women novelists and poets have explored the entire range of human experience, of social, political, and philosophical issues as well as personal experience. This course will discuss the ways in which they have treated such issues as they relate to women's own lives. Although specific content may vary from semester to semester, readings are likely to emphasize nineteenth-century writers like Jane Austen, George Eliot, Charlotte Bronte, and Elizabeth Gaskell. 2 year cycle. Cr 3.

**ENG 380 The American Renaissance**

Major American writers of the mid-19th century. Includes critical study of major works by Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson with attention to the social and literary backgrounds. 2 year cycle. Cr 3.

**ENG 382 The Earlier American Novel**

An historical survey of the American novel from Charles Brockton Brown to Henry James. 2 year cycle. Cr 3.

**ENG 384 Twain and James**

A study of the major figures in the development of realism in American fiction after the Civil War. Selections will include *Adventures of Huckleberry Finn*, *Pudd'nhead Wilson*, *The Mysterious Stranger*, and *Old Times on the Mississippi*, as well as representative novels by James (e.g., *The Europeans*, *What Maisie Knew*, *The Spoils of Poynton*, and *The Ambassadors*). 2 year cycle. Cr 3.

**ENG 385 The Modern Age: British**

The purpose of this course is to define and discuss the nature of Modernism as it developed in 20th-century Britain. Both technical change and innovation and changes in themes and attitudes will be considered. What kind of world, for example, does a poem like *The Waste Land* or a novella like *Heart of Darkness* portray? What assumptions underlie them? What changes in poetic narrative form do they demand? The class will emphasize early Modern (pre-World War II) but will attempt to discover, as well, how contemporary British literature has developed since then. The course will include such writers as Joyce, Conrad, Yeats, MacDiarmid, Woolf, Lessing and Beckett. 2 year cycle. Cr 3.

**ENG 386 The Modern Age: American**

The purpose of this course is to examine the nature of Modernism as it developed in 20th-

**ENG 389 Writers of Maine**

Historical and literary analysis of writers in and about Maine. The emphasis will be on the literary quality of the best-known men and women writers and the place in history both past and present of the lesser known writers. Extra credit in the course will be given for a report about any off-campus project related to an author and a particular locality in Maine. English majors should have already taken a survey of American literature; prospective teachers will prepare an annotated bibliography of one author of their choice. Every year. Cr 3.

**ENG 475 Independent Study in the Victorian Period**

By instructor's permission. See department for application form. Cr var.

**ENG 476 Seminar in Victorian Studies**

An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Cr 3.

**ENG 480 Independent Study in American Literature**

By instructor's permission. See Department for application form. Cr var.

**ENG 481 Seminar in Earlier American Literature**

An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects: backgrounds of American thought, Hawthorne and Melville, Twain and James, Thoreau. Cr 3.

century America. Early precursors such as Whitman, Dickinson, and Twain will be considered with a view to determining what special issues and techniques developed to express an American Experience. Emphasis, however, will be on major recent writers such as Faulkner, Hemingway, Fitzgerald, Pound, Williams, Katherine Anne Porter, Flannery O'Connor, Stevens, Moore, Hurston, and selected contemporary poets. 2 year cycle. Cr 3.

**ENG 387 Contemporary Women Writers**

The focus of the course is on 20th-century novelists and/or poets. Specific readings and thematic approaches will vary depending on instructor. The course has been taught, for example, with an emphasis on the regional and ethnic cultures from which American women writers come, reading works by Kate Chopin, Willa Cather, Eudora Welty, Alice Walker,

*Modern Literature*

Toni Morrison, Maya Angelou, Leslie Silko, Maxine Kingston, Grace Paley, and Anne Sexton. 2 year cycle. Cr 3.

### **ENG 388 Modern Christian Writers**

Dostoevsky's novels mark a resurgent interest in Christian religious experience as a subject for major literature. This development in the 20th century includes such figures as Bloy, Eliot, Auden, Waugh, Greene, Undset, Claudel, Peguy, Mauriac, Bernanos, Silone, Lowell, Percy, and O'Connor. A representative selection, primarily fiction, will be examined. 2 year cycle. Cr 3.

### **ENG 390 Modern British Poetry**

Modern British poetry has taken diverse forms and concerned itself with a wide range of themes. This course, however, will focus on two or three selected major figures such as Hardy, Yeats, Eliot, MacDiarmid, Auden, and Thomas with the aim of placing them in the larger context. The class will examine and discuss early changes in poetic forms, the impact of World War I poets and the Georgians, the developments in contemporary Britain. The primary focus will then be to consider in depth the two or three major figures, defining what determines their particular voice and vision of reality. The selected poets will vary with the semester. 2 year cycle. Cr 3.

### **ENG 391 Modern American Poetry**

This course will focus on two or three major poets such as Stevens, Frost, Marianne Moore, Pound, Williams, Plath, and H.D. The course will also, however, seek to place them in a historical perspective, both in technical development and specifically American themes and conceptions of reality. There will be some examination of poets like Whitman and Dickinson, who stand at the beginning of modern American poetry, as well as contemporary poets like Levertov, Rich, Gwendolyn Brooks, Kinnell, and Bly. The primary focus will then be to examine the selected figures against the broader context, with the purpose of defining their unique voices and forms. The selected poets will vary with the semester. 2 year cycle. Cr 3.

### **ENG 392 Twentieth-Century British Novels**

Selected novels from the late 19th century to the present. 2 year cycle. Cr 3.

### **ENG 393 Twentieth-Century American Novels**

An historical survey of American novels beginning around 1900. 2 year cycle. Cr 3.

### **ENG 394 Modern Poetry**

This course explores the tradition of experimentation in Dickinson, Frost, and Stevens. It draws from a range of figures in an effort to bring into focus the achievement of such

English and American figures as Dorn, Berryman, Amy Clampitt and Norman Dubie. Course content varies. Cr 3.

### **ENG 395 Anglo-Irish Literature**

A study of the major Irish writers from 1880 to the present. Topics may vary, but they will typically include some of the foremost Irish writers of the past century, such as Yeats, Lady Gregory, Wilde, Shaw, Synge, Joyce, O'Casey, Behan, Beckett, O'Connor, Bowen, Lavin, Heaney, and Friel. 2 year cycle. Cr 3.

### **ENG 396 Southern Women Writers**

Novels and collections of stories by Ellen Glasgow, Elizabeth Madox Roberts, Katherine Anne Porter, Eudora Welty, Carson McCullers, Flannery O'Connor, Elizabeth Spencer, Ann Tyler, Alice Walker, and others will be examined individually and as expressions of female experience in a male-dominated traditional culture. 2 year cycle. Cr 3.

### **ENG 397 American Drama**

A study of the drama in the United States. A brief history of early American playwrights followed by a close study of major figures, with O'Neill as the center. Others: Maxwell Anderson, Robert Sherwood, Tennessee Williams, Arthur Miller, and Edward Albee. (This course is also listed as THE 460). Cr 3.

### **ENG 398 The Southern Renaissance**

The post-World War I flowering in Southern letters, with emphasis on the fiction of Wolfe, Faulkner, Elizabeth Madox Roberts, Tate, Gordon, Porter, Warren, Welty, Peter Taylor, Flannery O'Connor, and Walker Percy. 2 year cycle. Cr 3.

### **ENG 490 Independent Study in Modern Literature**

By instructor's permission. See department for application form. Cr var.

### **ENG 491 Seminar in Modern British Literature**

An advanced course focusing on individual writers or particular literary themes or problems. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects: Joyce's *Ulysses*, modern Scottish literature. Cr 3.

### **ENG 492 Seminar in Modern American Literature**

An advanced course focusing on individual writers or particular literary movements. Emphasis is on applying various critical and scholarly approaches to important, limited subjects. Typical subjects might be the image of blacks in American literature; the fugitive poets; Fitzgerald, Faulkner, and Hemingway; and the feminization of American culture. Cr 3.

## Experimental Courses

Occasionally the English Department offers special courses not listed individually in the catalog. They appear in the current Schedule of Courses under the designation 199, 299, 399, or 499. Such courses will usually be experimental:

pursuing original research, testing new alignments of figures or materials, or trying out courses before including them in the department curriculum.

# Environmental Science and Policy

*Program Director:* Jack D. Kartz, 106 Bailey Hall, Gorham

*Program Advisory Committee:* Fitts (Geosciences), Gordon (Chemistry), Hamilton (Political Science), Hodges (Geography-Anthropology), Riciputi (Biology); *Assistant Professor:* Brzorad

Interdisciplinary study of environmental science and policy integrates knowledge of the natural sciences with awareness of government processes and skills of oral and written communication. It provides a broad educational experience emphasizing an understanding of planning and policy making as they relate to management of the natural and cultural environments. Particular attention is given to the interaction of natural and social systems. Students learn to analyze problems using the insights of several fields of knowledge rather than from a single disciplinary perspective. A practical, real-world orientation supplements theoretical knowledge. The study of environmental science and policy provides substantive and analytic background that can lead to a variety of professions. The degree offers a foundation for employment opportunities and for graduate or professional studies in related areas such as environmental science, public policy, law, land use planning, public administration, business, pollution control and remediation, laboratory analysis, and natural resource management.

## Bachelor of Arts

The minimum number of credits (exclusive of the University's Core curriculum) required for the major is 66-68, depending on which of the four options within the major is selected.

A student majoring in environmental science and policy must achieve at least a 2.0 grade point average in the major and must earn at least a C- grade in each course in the major.

### Required Courses

GEO	102K	Physical Geography and Lab
BIO	105K,106K,107,108	Biological Principles I & II and Labs
GEY	111K,112K	Physical Geology and Lab
CHY	113K,114K,115,116	Principles of Chemistry I & II and Labs
POS	101J	American Government
ECO	202J	Principles of Microeconomics
GEO	209	Introduction to Land Use Planning
ESP	101	Fundamentals of Environmental Science, with Lab
*ESP	103	Environmental Communication
ESP	201	Legal Process and Environment
ESP	365/POS 365	Environmental Politics & Policy
*ESP	401	Environmental Science & Policy Seminar
*ESP	495	Internship/Senior Project
MAT	120D	Introduction to Statistics

Majors must also complete one of the following four options:

### Option 1: Community Planning

GEO	210	Planning Maine Communities, with Lab
GEO	402	Urban Geography
*ESP	305	Community Planning Workshop

## Programs and Requirements

*ESP	307	Legal Aspects of Land Use Planning
Two courses from the following		
GEO	104	Cartography
GEO	205	Air Photo Interpretation
GEO	207	Map Appreciation
One course from the following		
POS	251	Public Administration
*ESP	415	Regional Economics *
*ESP	417	Conservation of New England Townscapes
<i>Option 2: Environmental Policy</i>		
*ESP	301	Environmental Impact Assessment and Lab
*ESP	419	Natural Resources/Environmental Economics
POS	286	Administrative Law
POS	251	Public Administration
Three courses from the following		
ITP	320	Occupational Safety & Health
*ESP	309	Hydrology
*ESP	403	Environmental Impact of Air Pollution
*ESP	405	Resource Recovery & Recycling
*ESP	409	Soils and Environmental Contamination
*ESP	421	Natural Resource Policy
<i>Option 3: Water Resources</i>		
MAT	152D	Calculus A
PHY	111K	Elements of Physics
CHY	231,	232 Analytical Chemistry and Lab
*ESP	309	Hydrology
GEY	327	Applied Hydrogeology and Lab
One course from the following		
GEY	427	Introduction to Groundwater Modeling
BIO	341	Limnology
*ESP	407	Waste Disposal Systems
*ESP	423	Water Chemistry
<i>Option 4: Applied Ecology</i>		
CHY	231, 232	Analytical Chemistry and Lab
BIO	331	Ecological Principles
BIO	332	Field Ecology
*ESP	411	Methods of Field Analysis
Two courses from the following		
BIO	341	Limnology
BIO	411	Coastal Marine Ecology
*ESP	303	Wetlands Ecology
*ESP	403	Environmental Impact of Air Pollution
*ESP	409	Soils and Environmental Contamination
*ESP	413	Forest Ecology and Lab

\*These courses are still under development. Please contact the program director for more information.

Admission to the major is competitive, usually requiring grades equivalent to a B average or higher.

Because some courses are still being developed, students who will complete 30 credits or more prior to fall semester 1995 should contact the program director.

### **ESP 101 Fundamentals of Environmental Science**

A lecture/laboratory course which surveys the impact of human activity on ecosystems, with specific consideration of land, water, and air pollution, resource utilization and degradation, and waste disposal. Majors only or by permission of the instructor. Cr 4.

### **ESP 103 Environmental Communication**

A multidisciplinary approach to managing communications and relationships in environmental policy and management. Components include technical writing and public speaking, use of scientific and statistical information, public and risk communication, and conflict resolution. Prerequisite: Successful completion of the University's writing proficiency requirement. Cr 3.

### **ESP 201 Legal Process and the Environment**

An introduction to current legal techniques and institutions for environmental protection, with emphasis on statutory interpretation, rule making, licensing procedure, and the roles of expert testimony and citizen participation in administrative, legislative, and judicial processes. Major in ESP or by permission of the instructor. Cr 3.

### **ESP 303 Wetlands Ecology**

This lecture course examines wetlands from the perspectives of science and policy. Topics will include wetland definitions, classification, and regional and national trends in habitat destruction and management. Prerequisites: BIO 105K, BIO 107K, CHY 113 and CHY 114. Cr 3.

### **ESP 365/POS 365 Environmental Politics and Policy**

This course provides an introduction to policy making and implementation processes through a survey of current waste disposal issues, air and water pollution control policies, and management issues in environmental protection. Prerequisites: POS 101J, POS 102J and POS 103J, or by permission of the instructor. Cr 3.

### **ESP 411 Methods of Field Analysis**

This lab/field course investigates ecological and environmental issues using descriptive field techniques, hypothesis testing, computer analysis, and journal article interpretation. Prerequisites: BIO 331 and MAT 120. Cr 2.

## **Foreign Languages and Classics**

*Chair of the Department:* Jean Fouchereaux, 55 Exeter Street, Portland  
*Professor:* Crochet; *Associate Professors:* diBenedetto, Fouchereaux, Hinckley, Kinsella, Rosenthal, Suscavage, Ubans; *Assistant Professor:* Aicher; *Professor Emerita:* Duclos

A foreign language major offers a uniquely rich and diverse humanities background. The study of languages sensitizes us to other cultures and the relativity of values; it frees us from the confines of monolingualism and provincialism; it increases our understanding of and competence in our native language; and, most important, it is an inquiry into language as language: the structure, system, code by which we interpret the world to ourselves and others. Through in-depth study of literature we develop skills of close reading and literary analysis, and in composition courses we hone our writing skills.

A foreign language is also a valuable and marketable skill in many professions, especially international relations and trade, government service, journalism, travel, social services, the arts, and teaching.

The Department offers a major in French and broader, interdepartmental majors in foreign languages, classical studies, French studies, German studies, Hispanic studies, and Russian studies. Also classics, French, German, Russian, and Spanish minors are available which augment other majors in the College of Arts and Sciences.

The Department also offers a number of courses in English translation requiring no knowledge of a foreign language and open to any student interested in foreign or classical literature and civilization. These courses are numbered 281-299. Literature courses in this category may be credited towards a

### **Programs and Requirements**

major or a minor in the Department if the readings, exams, and papers are done in the target language.

Independent study courses, numbered 470, are available to qualified students with the permission of the instructor and the department chair.

### *Policies*

Beginning courses (101-102) are for students who have never studied the language. Courses numbered 103 are a review of this beginner's level. Intermediate level courses (201-202 for modern languages, 251-252 for the ancient languages) are for students with two successful years of high school language study. Those whose background does not fit any of these categories, especially Franco-Americans and students with Hispanic, German, or Italian backgrounds, should consult an instructor in the language before registering. Courses numbered 105-206 give students a reading proficiency in French or German for research in their field, graduate school language requirements, or cultural enjoyment. Courses numbered 107 and 207 are intensive, 6-credit language courses offered during the summer only; when taken in conjunction with the required 2-credit language laboratory, 107 and 207 cover the same material as 101-102 and 201-202, respectively. Students who have received credit for 102 or 202 cannot also receive credit for 107 and 207, respectively. Partial credit may be awarded if the student has received credit for 101 or 201 only.

The Department grants credit in French, German, Greek, Latin, and Spanish to an enrolled student who presents evidence of competency in one of those languages by completing the appropriate Advanced Placement Examination of the College Entrance Examination Board. For more details, contact the chair of the Department.

### *Study Abroad*

All students, regardless of major, are eligible to study in a foreign country, normally after studying the language of that country for two years on the college level and usually in their junior year. For the study of German, USM has a study abroad program at the University of Salzburg in Austria. For French, the University of Maine System has a formal program associated with the University of Le Mans in France. USM has an exchange program with l'Université Laval in Quebec and a summer program in Angers, France. For Russian, students have the possibility of going to St. Petersburg, Moscow, or Kharkov. For Spanish, there are a number of options available in South America and in Spain. Students interested in study abroad should consult with the chair of the Department or with the Office of International Programs to explore these and other possibilities.

### *Language Laboratory*

The language laboratory is located on the Portland campus in Payson Smith Hall, Room 203, and is open every weekday. Students enrolled in beginner's courses are required to work with audio-visual materials as an integral part of their 4-credit course. Students enrolled in intermediate courses may register for supervised language practice amounting to a minimum of one hour a week in the laboratory; they will receive one extra credit (on a pass/fail basis) for regular and active attendance. Since the work done in the language lab is coordinated with classroom work, only the students enrolled in a language course can take the corresponding lab section for credit. Credit for the lab is granted only if the student passes the course. Any exception to this has to be approved by the chair of the Department. All students are welcome to use the language lab facilities for their own purposes, without credit.

Students are also urged to get extra practice in French, German, Italian, Russian, Spanish, and Portuguese by participating in informal conversation tables sponsored by the Department. Tutoring is available, often at no cost to the student. For information, see the Department secretary.

State of Maine certification for foreign language teachers requires 30 credits at the level 300 and above for the first language and 18 credits at the level 300 and above for the second language.

All major programs in the Department of Foreign Languages and Classics require that the student fulfill the requirements of the Core curriculum.

### *Bachelor of Arts in French*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

#### Language

FRE	321	French Composition/Workshop in Writing French
FRE	323	French Conversation/Workshop in Speaking French
FRE	305	Phonetics

#### Civilization

FRE	291I	Civilization, historical approach
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**or**

FRE	292I	Topics in Contemporary Francophone Civilization
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#### Literature

FRE	331	Workshop in French Literary Analysis
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and any two of the following

FRE	361	The Novel
FRE	362H	Poetry
FRE	363H	Theatre

#### Any two

FRE	460	Quebecer Literature
FRE	461	17th-Century Literature
FRE	462	18th-Century Literature
FRE	463	19th-Century Literature
FRE	464	20th-Century Literature

**plus**

FRE	465	Survey of French Literature
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#### Electives (or any two of the above courses)

FRE	221	Practice in Writing
FRE	223	Practice in Conversation
CLA	171	Etymology for Everyone

A language theory course (please consult advisor.)

Summer and junior year studies in France or French Canada are encouraged and acknowledged by transfer of credits.

All majors already engaged in studies of French literature should maintain an active effort to reach fluency in speaking French through constant practice, use of the language laboratory, and participation in informal conversation tables. They are expected to have reached proficiency in speaking and writing French before their graduation.

Each student's progress will be reviewed periodically by the French faculty. All majors must achieve at least 12 credits of B or better grades in their major courses. No grade of D will count toward fulfillment of a French major.

### *Group Contract in Foreign Languages*

The Self-Designed Major Program of the College of Arts and Sciences provides students with a flexible opportunity to tailor their major to their interests and needs in foreign language study. The following group contract options are available within the Self-Designed Major Program:

#### Foreign Languages

Classical Studies (concentration in either Greek or Latin)

French Studies

German Studies

Hispanic Studies

Russian Studies

Please refer to the section on interdepartmental majors of this catalog or contact the chair of the Department of Foreign Languages and Classics for additional information.



## Minors

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 9.

Since the knowledge of a foreign language, or languages, is valuable to all majors in other CAS disciplines, the Department offers minor programs in Classics (Latin or Greek), French, German, Russian, and Spanish. A given program consists of nine credits selected from the following courses:

Classics Minor (Greek)

GRE 251, 252; 310; CLA 291I

Classics Minor (Latin)

LAT 251, 252; 310; CLA 292I

French Minor

FRE 321; 323; 331; 361, 362H or 363H

German Minor

GER 321, 322; 351H, 352H; 281H

Russian Minor

RUS 281H or 291I; 301, 302; 470

Spanish Minor

SPA 301, 302, 303, 331, 332, and 351H or 352H or 450

## Literature and Civilization in English Translation

### CLA 171 Etymology for Everyone

Etymology is the study of word origins and derivations. This course focuses on the learning of the Latin and Greek roots of English as a key to the improvement of English vocabulary. No prior knowledge of Latin or Greek is necessary, nor are there any other prerequisites. Cr 3.

### CLA 283H The Epic Hero in Ancient Literature

Intensive readings in English translations of *Gilgamesh*, *Iliad*, *Odyssey*, *Argonautica*, *Aeneid*; discussion, papers. Prerequisite: sophomore standing. Cr 3.

### CLA 284H The Tragic Hero in Ancient Literature

Intensive reading of selected plays in English translation by Aeschylus, Sophocles, Euripides, Seneca; discussion, papers. Prerequisite: sophomore standing. Cr 3.

### CLA 285I Classical Mythology

Examination of the myths of Greece and Rome from a variety of perspectives: anthropological, etiological, historical, psychoanalytical, structural. Prerequisite: sophomore standing. Cr 3.

### CLA 291I The Golden Age of Greece

The literature, history, politics, philosophy, art, and architecture of the fifth century B.C. with particular attention to the achievements of Athens. Lectures, discussion, papers, museum trip. Prerequisite: sophomore standing. Cr 3.

### CLA 292I Rome, from Republic to Empire

The literature, history, politics, philosophy, art,

and architecture of Rome in the first century B.C. Lectures, discussion, papers, museum trip. Prerequisite: sophomore standing. Cr 3.

### FRE 283H Contemporary French Thinkers

Readings and discussion of recent works of French literature selected for their philosophical and ethical importance: Saint-Exupéry, Sartre, Camus, de Beauvoir, Teilhard de Chardin and others. No knowledge of French is necessary. Cr 3.

### FRE 291I French Civilization: An Historical Approach

Aspects of the society, institutions, arts, literature, and religion of France, from the origins to the end of the 19th century. No French is spoken in the classroom. Cr 3.

### FRE 292I Topics in Contemporary Francophone Civilization

Institutions, education, society, economy, politics of France. No French is spoken in the classroom. Cr 3.

### GER 281H The German Novelle

The study of the genre of the novelle and its development through the major literary movements from the early 19th century to the present. Authors read vary, but normally include Goethe, Tieck, E.T.A. Hoffmann, Kleist, C.F. Meyer, Storm, Musil and Mann. No knowledge of German is necessary. Cr 3.

### RUS 281H Russian Literature in English Translation

The content of this course will vary. Topics will

include: Russian literature of the 19th century, Russian literature of the 20th century, recent Soviet literature, Russian theater and cinema. The readings for RUS 281H and the discussions will be in English. Cr 3.

**RUS 291I Russian and Soviet Culture and Civilization**

A historical view of Russian and Soviet society and culture from the origins of the East Slavic settlements to the present day. No Russian is required. Cr 3.

**SPA 270 The Culture and Civilization of Spain**

This course examines aspects of the society, institutions, art, literature, and religion of Spain from its origins to the present. No knowledge of Spanish is necessary. Cr 3.

**SPA 281H Masterpieces of Spanish American and Brazilian Literature**

This is a study of contemporary literature representative of current trends in Spanish America and Brazil. Cr 3.

*Classics: Greek and Latin*

**GRE 101 Beginning Greek I**

Fundamentals of classical Greek. Emphasis upon acquisition of reading knowledge. Cr 4.

**GRE 102 Beginning Greek II**

Prerequisite: GRE 101 or equivalent. Cr 4.

**GRE 251 Introduction to Greek Literature I**

A study of Plato's *Apology*, *Crito* and selections from the *Phaedo*. Prerequisite: GRE 102 or equivalent. Cr 3.

**GRE 252 Introduction to Greek Literature II**

A study of selected books from Homer's *Iliad* or *Odyssey*. Prerequisite: GRE 251. Cr 3.

**GRE 310 Seminar in Greek Literature**

Readings in Greek prose and poetry; a different author will be read each semester. Translation, supplementary reading, paper. Prerequisite: GRE 252. Cr 3.

**GRE 470 Independent Study**

**LAT 101 Beginning Latin I**

Fundamentals of classical Latin. Emphasis upon acquisition of reading knowledge. Cr 4.

**LAT 102 Beginning Latin II**

Prerequisite: LAT 101 or equivalent. Cr 4.

**LAT 251 Introduction to Latin Literature I**

Selected readings from masters of Latin prose and poetry. Prerequisite: LAT 102 or equivalent. Cr 3.

**LAT 252 Introduction to Latin Literature II**

Continuation of LAT 251. Cr 3.

**LAT 310 Seminar in Latin Literature**

Readings in Latin prose and poetry; a different author will be read each semester. Translation, supplementary reading paper. Prerequisite: LAT 252. Cr 3.

**LAT 470 Independent Study**

*French*

**FRE 101 Beginning French I**

This beginner's course in French stresses the acquisition of cultural information and introduces the student to the four skills of language learning: listening comprehension, speaking, reading, and writing. The course meets four times per week and requires additional work with coordinated language tapes. Opportunity for practice with videotapes and computer exercises is available. Cr 4.

**FRE 102I Beginning French II**

Continuation of FRE 101. Prerequisite: FRE 101 or equivalent. Cr 4.

**FRE 103 Review of Elementary French**

Elementary French for students with some previous study of the language who feel the need for a refresher course before entering FRE 201I. Cr 3.

**FRE 105 Reading French I**

Beginner's course in French aiming exclusively at a reading knowledge of the language. No French spoken. Recommended also as preparation for language tests required by graduate schools. Cr 3.

**FRE 107I Intensive Beginning French**

An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college French. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading and writing along with an introduction to contemporary culture and civilization. Daily practice in the language laboratory is required (for two additional credits). Offered during the summer only.

Cr 6. (With lab, Cr 8.)

**FRE 201I Intermediate French I**

Review of grammatical structures. Further development of listening comprehension, speaking, reading and writing skills. Emphasis on understanding cultures and contemporary life of French-speaking countries through reading and discussion. Students are encouraged to also register for laboratory practice (one more credit). Prerequisites: FRE 102I, FRE 103, two years of high school French or the equivalent.

Cr 3. (With lab, Cr 4.)

**FRE 202I Intermediate French II**

Continuation of FRE 201I. Prerequisite: FRE 201I or the equivalent. Cr 3. (With lab, Cr 4.)

**FRE 206 Reading French II**

Further practice of the skill acquired in FRE 105 through an accelerated reading of books on various topics (fiction, history, science, etc.). Prerequisites: FRE 105, 102, 103, or instructor's permission. Cr 3.

**FRE 207I Intensive Intermediate French**

This is an intensive course for the intermediate student covering a full year's work at the college level. Emphasis is placed on the development of listening, comprehension, speaking, reading, and writing skills. Daily lab work is mandatory. Cr 6. (With Lab, Cr 8.)

**FRE 221 Practice in Writing**

Advanced study of the French language. Proficiency in writing, vocabulary development and idiomatic expression are the objectives of the course. Prerequisite: FRE 202I or equivalent. Cr 3.

**FRE 223 Practice in Conversation**

Intensive oral practice, expository reports, debates, class discussions. Prerequisite: FRE 202I or equivalent. Cr 3.

**FRE 305 French Phonetics**

A formal study of the French sound system and an initiation into phonetic transcription with practical and remedial work in pronunciation. Prerequisite: FRE 202I or equivalent. Cr 3.

**FRE 321 Workshop in Writing French**

Practice of free composition and translation. Prerequisite: FRE 221 or equivalent. Cr 3.

**FRE 323 Workshop in Speaking French**

Practice of French conversation for advanced students. Prerequisite: FRE 223 or equivalent. Cr 3.

**FRE 331 Workshop in French Literary Analysis**

Fundamental techniques of French literary analysis, close reading, and critical interpretation. All readings, discussions and papers will

be conducted in French. This course is a prerequisite for all other 300-level French literature courses. Cr 3.

**FRE 361 The French Novel**

A study of novels and short stories, especially of the 19th and 20th centuries, and of the various critical approaches to fiction. Prerequisite: FRE 331 or equivalent. Cr 3.

**FRE 362H French Poetry**

A study of works by famous French poets and of the critical approaches to French poetry. Prerequisite: FRE 331 or equivalent. Cr 3.

**FRE 363H The French Theatre**

A study of representative works by the major playwrights of France in the classical, romantic, and modern periods and of critical approaches to drama. Prerequisite: FRE 331 or equivalent. Cr 3.

**FRE 460 A Study of Quebecer Literature**

A study of prose fiction, poems, and plays by major Quebec writers from 1945 to the present. The literary works are not only analyzed for their intrinsic value but also examined in the light of the political and social history of Quebec. Prerequisites: FRE 361, 362H or 363H. Cr 3.

**FRE 461 17th-Century Literature**

A seminar in 17th-century French literature based on selected topics which may vary each time the seminar is offered. The theme will be announced the year that the course is given. Prerequisites: FRE 361, 362H or 363H. Cr 3.

**FRE 462 18th-Century Literature**

A study of the critical and revolutionary thought of the major 18th-century French thinkers (Montesquieu, Voltaire, Rousseau, Diderot) in an attempt both to define the role of the Enlightenment in the downfall of the *Ancien Régime* and to determine its place in the history of ideas. Prerequisites: FRE 361, 362H or 363H. Cr 3.

**FRE 463 19th-Century Literature**

A seminar in 19th-century French literature based on selected topics which may vary each time the seminar is offered. The theme will be announced the year that the course is given. Prerequisites: FRE 361, 362H or 363H. Cr 3.

**FRE 464 20th-Century Literature**

A seminar in 20th-century French literature based on selected themes which will vary each time the seminar is offered. The theme will be announced the year that the course is given. Prerequisites: FRE 361, 362H or 363H. Cr 3.

**FRE 465 Survey of Literature**

An opportunity for senior students to review and complete their previous studies of French literature by surveying its development and styles through the centuries. Prerequisites: FRE 361 and/or 362H and/or 363H. Cr 3.

**GER 101 Beginning German I**

This beginner's course in German stresses the acquisition of cultural information and introduces the student to the four skills of language learning: listening comprehension, speaking, reading, and writing. The course meets four times per week and requires additional work with coordinated language tapes. Opportunity for practice with videotapes and computer exercises is available. Cr 5.

**GER 102I Beginning German II**

Continuation of GER 101. Prerequisite: GER 101 or equivalent. Cr 5.

**GER 105 Reading German I**

Elementary course in German aiming exclusively at a reading knowledge of the language. No German spoken. Offered every other year. Cr 3.

**GER 107I Intensive Beginning German and GER 107 Lab**

An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college German. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing, along with an introduction to contemporary culture and civilization. Daily practice in the language lab is required (for two additional credits). Offered during the summer only. Cr 6. (With lab, Cr 8.)

**GER 201I Intermediate German I**

Review of grammar. Further development of listening comprehension, speaking and reading skills. Emphasis on understanding German culture and contemporary life through reading and discussion of short stories, articles and essays. Students are encouraged to also register for laboratory practice (one more credit). Prerequisite: GER 102I, two years of high school German or the equivalent. Cr 3. (With lab, Cr 4.)

**FRE 470 Independent Study****GER 202I Intermediate German II**

Continuation of GER 201I. Prerequisite: GER 201I or the equivalent. Cr 3. (With lab, Cr 4.)

**GER 206 Reading German II**

Further practice of the reading skill acquired in GER 105. Recommended also as preparation for language tests required by graduate schools. Prerequisites: GER 105, 102I or instructor's permission. Offered every other year. Cr 3.

**GER 321 Composition and Conversation in German I**

Systematic training in correct pronunciation and usage, and in vocabulary building, with written and oral practice. Prerequisite: GER 202I or equivalent. Cr 3.

**GER 322 Composition and Conversation in German II**

Continuation of GER 321. Reading and discussion of historical, journalistic, and literary material covering life in Germany from World War I to the present. Prerequisite: GER 321 or equivalent. Cr 3.

**GER 351H Introduction to German LiteratureI**

Reading and discussion of selected works representing the major literary movements from Enlightenment to Realism. Readings are in German; class discussions and exams are in English. Prerequisite: GER 202I or GER 206 or an equivalent reading ability of German. Cr 3.

**GER 352H Introduction to German Literature II**

Reading and discussion of selected works representing the major literary movements from Naturalism to the present. Readings are in German; class discussions and exams are in English. Prerequisite: GER 202I or GER 206 or an equivalent reading ability of German. Cr 3.

**GER 470 Independent Study**

**POR 101 Beginning Portuguese I**

Beginner's course in Portuguese. Initiation in the four skills of language learning: listening comprehension, speaking, reading, and writing. The class meets three times a week. In addition, one hour of language lab work is required. Cr 4.

**POR 102 Beginning Portuguese II**

Prerequisite: POR 101 or equivalent. Cr 4.

**POR 201 Intermediate Portuguese I**

Review of grammatical structures. Further development of listening comprehension, speaking, reading, and writing skills. Continued emphasis on understanding of Portuguese culture and civilization through reading and discussion of literary and historical texts as well as frequent reference to contemporary customs and events. Cr 3.

**POR 202 Intermediate Portuguese II**

Continuation of POR 201. Prerequisite: Portuguese 201 or the equivalent. Cr 3.

**RUS 101 Beginning Russian I**

A course for beginners which includes the four skills of listening comprehension, speaking, writing, and reading. Students are also provided with cultural information needed to use the language correctly. The course emphasizes the acquisition of real Russian by using authentic materials. Cr 5.

**RUS 102I Beginning Russian II**

Continuation of RUS 101. Prerequisite: RUS 101 or equivalent. Cr 5.

**RUS 107 Intensive Beginning Russian**

An intensive course to prepare the beginning student for the intermediate level of college Russian. Emphasis is placed upon the four skills of language learning: speaking, oral comprehension, reading, and writing, along with an introduction to contemporary culture and civilization. Daily practice with tapes is required (for two additional credits). Offered during the summer only. Cr 6. (With tape work, Cr 8.)

**RUS 201I Intermediate Russian I**

This course further develops the four skills of listening comprehension, speaking, writing, and reading. The course provides students with the cultural information they need to use the language correctly. The aim of the course is for students to acquire "real" Russian and be able to deal with authentic materials. Prerequisite: RUS 102I or equivalent. Cr 3. (With lab, Cr 4.)

**RUS 202I Intermediate Russian II**

Continuation of RUS 201. Prerequisite: RUS 201 or the equivalent. Cr 3. (With lab, Cr 4.)

**RUS 301 Advanced Intermediate Russian I**

This course involves intermediate-level work in the four skills of listening comprehension, speaking, writing, and reading that promotes the student toward an advanced level. The course emphasizes the development of the student's active and passive vocabularies and deeper knowledge of Russian culture. The course is taught primarily in Russian. Prerequisite: RUS 202I or equivalent. Cr 3.

**RUS 302 Advanced Intermediate Russian II**

This is the transitional course in the language acquisition sequence. Students who complete the course satisfactorily are ready to begin advanced-level work in all four skill areas. The class is conducted entirely in Russian. Cr 3.

**RUS 321 Advanced Russian**

Students will read a variety of authentic texts ranging from newspapers to encyclopedias to literary works and will write extended essays, discuss ideas and argue points of view on a variety of subjects. They are also required to listen to or watch real Russian media. Students may also work on the art of translation. Prerequisite: RUS 302 or equivalent. Cr 3.

**RUS 351 Seminar in Russian Literature**

Topics for this seminar will be chosen from the following: historical surveys, genre surveys in the novel, short story, drama, and Russian women writers. All coursework is in Russian. The emphasis is on language and style. Prerequisites: RUS 281H and RUS 321. Cr 3.

**RUS 470 Independent Study**

**SPA 101 Beginning Spanish I**

A beginning course in Spanish in the four skills of language learning: listening comprehension, speaking, reading, and writing. The class meets three times a week. In addition, audio-visual work is required. Cr 4.

**SPA 102I Beginning Spanish II**

Continuation of SPA 101. Prerequisite: SPA 101 or equivalent. Cr 4.

**SPA 107I Intensive Beginning Spanish and SPA 107 Lab**

An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college Spanish. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing, along with an introduction to contemporary culture and civilization. Daily practice in the language lab is required (for two additional credits). Offered during the summer only. Cr 6. (With lab, Cr 8.)

**SPA 201I Intermediate Spanish I**

Review of grammatical structures. Further development of listening comprehension, speaking, reading and writing skills. Continued emphasis on understanding of Hispanic culture and civilization through reading and discussion of literary and historical texts as well as frequent reference to contemporary customs and events. Students are encouraged to also register for laboratory practice (one more credit). Prerequisite: SPA 102, two years of high school Spanish or the equivalent. Cr 3.

**SPA 202I Intermediate Spanish II**

Continuation of SPA 201I. Prerequisite: SPA 201I or the equivalent. Cr 3.

**SPA 207I Intensive Intermediate Spanish**

SPA 207 is an intensive course for the intermediate student, covering a full year's work at the college level to prepare the student for an advanced language level. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing. Readings and discussions of contemporary Hispanic civilization and culture are included. Daily lab work is mandatory. Prerequisite: SPA 102I or equivalent. Offered during the summer only. Cr 6. (With lab, Cr 8.)

**SPA 301 Practice in Conversation**

The objective of the course is oral proficiency in advanced contexts. Situational activities include reports, debates, class discussions, and conversations. Prerequisite: SPA 202I or equivalent. Cr 3.

**SPA 302 Practice in Writing**

The objective of the course is advanced proficiency in writing. Grammar review and study of advanced linguistic expressions through readings in the target language are included. Prerequisite: SPA 202I or equivalent. Cr 3.

**SPA 303 Speaking through Reading**

Varied literary and cultural readings providing a bridge from the intermediate level to literature and other advanced content courses in Spanish. Discussions, written exercises, and examinations will be in Spanish. Prerequisite: SPA 301 or permission of instructor. Cr 3.

**SPA 331 Advanced Conversation**

SPA 331 is a group discussion course for advanced students. Collateral reading and study of vocabulary idioms and expressions are required. Prerequisite: SPA 301 or equivalent. Cr 3.

**SPA 332 Advanced Grammar and Stylistics**

This course involves systematic training in grammatical and compositional fluency and accuracy. Translation techniques will also be a component of the course. Prerequisite: SPA 302 or equivalent. Cr 3.

**SPA 351H Readings in Contemporary Spanish Literature**

An introduction to the literature of contemporary Spain. All discussions and readings will be in Spanish. Prerequisite: SPA 303 or permission of instructor. Cr 3.

**SPA 352H Readings in Modern Latin American Literature**

An introduction to the literature of modern Latin America. All discussions and readings will be in Spanish. Prerequisite: SPA 303. Cr 3.

**SPA 450 Topics in Hispanic Language and Literature**

An advanced seminar in Hispanic language, culture, and literature. Prerequisite: SPA 331 and SPA 332, or SPA 351H and SPA 352H, or permission of the instructor. Cr 3.

**SPA 470 Independent Study**

# Geography-Anthropology

*Chair of the Department:* Franklin D. Hodges, 300A Bailey Hall, Gorham  
*Professor:* Davis; *Associate Professors:* Crader, French, Hamilton, Hodges,  
Tizon; *Assistant Professor:* Bampton

The program leading to a major in geography-anthropology emphasizes the integration of the two disciplines. Among the elements that are integrated in the major are common interests in the relationship between human populations and their natural environment, decision-making strategies of human groups, and the health and nutritional status of human societies. The major is an interdisciplinary program wherein students are expected to take courses from both geography and anthropology. The program of study beyond the basic requirements should be planned carefully, in close consultation with the student's departmental advisor, and should be approved by the latter. Such an arrangement allows for flexibility according to the student's interests while also providing close guidance and a control of educational quality by the Department.

## **Programs and Requirements**

The Department offers the following programs: bachelor of arts in geography-anthropology; minor in anthropology; minor in geography; applied geography minor in planning; and a concentration in the social sciences area major of the College of Arts and Sciences.

All students with majors or specific discipline minors in the social sciences must achieve at least six credits with grades of B or better in the requirements of those majors or minors. No grades of D will be counted toward fulfillment of the major or minor requirements. Except for Independent Studies, no required course may be repeated more than one time.

All students are reminded that, in addition to meeting departmental requirements for the major, they must also meet the University's minimum proficiency requirements and the Core curriculum requirements.

### *Bachelor of Arts in Geography-Anthropology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 41-42.

*All students must take:*

ANT	101J	Anthropology: The Cultural View
ANT	102K	Biological Anthropology
ANT	103	Introduction to Archaeology
GEO	101J	Principles of Geography
GEO	201I	Cultural Geography

Internship in Applied Geography-Anthropology or a Field Experience

*Students electing to concentrate in anthropology must also take:*

ANT	310	History of Anthropological Thought
GEO	208	Cartography I

**or**

GEO	303J	Economic Geography
ANT	240	Primate Behavior

**or**

ANT 305 Models in Archaeology

One of the following ethnography courses:

ANT	220I	North American Indians
ANT	222I	Peoples of the North
ANT	230I	Hunters and Gatherers
ANT	301I	Victims of Progress
ANT	350	Amazon Peoples and Development

**and**

12 additional credit hours, 9 of which *must* be ANT, and 3 of which may be GEO *or* ANT

*Students who elect to concentrate in geography must also take:*

ANT	213	Strategies for Survival
GEO	102K	Physical Geography

Choice of one from the following applied/techniques courses:

GEO 205	Air Photo Interpretation
GEO 208	Cartography I
GEO 209	Introduction to Land Use Planning
GEO 210	Planning Maine Communities
GEO 308	GIS I
GEO 408	GIS II

Choice of one from the following topical courses:

GEO 207	Map Appreciation
GEO 301	Political Geography
GEO 303J	Economic Geography
GEO 304	Social Transformation of Nature
GEO 402	Urban Geography
GEO 403	Urban Physical Geography

Choice of one from the following regional courses:

GEO 120J	Geography of Maine
GEO 212	Regional Geography of Western Europe
GEO 220	International Geography

9 additional credit hours, 6 of which *must* be in GEO courses at or above the 300 level, and 3 of which may be ANT *or* GEO.

Additionally, all geography-anthropology majors are required to:  
demonstrate writing competence by completing two research papers in the major with grades of C or better, from two different professors, circulated and reviewed by the Department at least one semester prior to graduation; and

complete 3 hours of quantitative methods from one of the following:

MAT 105D, MAT 120D, MAT 212, PSY 201D or SOC 307D

The maximum number of hours of internships, field experience, and/or independent studies that can be applied toward the major is 9 hours. All students must meet with their advisors before registering for courses each semester.

### *Minor in Anthropology*

The minor in anthropology shall consist of the following 19 credits:

ANT 101J	Anthropology: The Cultural View (3 credits)
ANT 102K	Biological Anthropology and Lab (4 credits)
ANT 103	Introduction to Archaeology (3 credits)
ANT 310J	History of Anthropological Thought (3 credits)

**and** any two courses (6 credits total) from two different subfields of anthropology (cultural, archaeology, biological)

### *Minor in Geography*

The minor in geography shall consist of the following 19 credits:

GEO 101J	Principles of Geography (3 credits)
GEO 102K	Physical Geography and Lab (4 credits)
GEO 120J	Geography of Maine (3 credits)
GEO 208	Cartography I (3 credits)

**or**

GEO 205	Air Photo Interpretation (3 credits)
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**and** 6 additional hours of geography courses

### *Applied Geography Minor in Planning*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

Required courses: GEO 101J, GEO 208

Choice of one from: GYA 350-351, GYA 400

Choice of one from: GEO 205, GEO 308

Choice of one from: GEO 209, GEO 210

Choice of one from: GEO 303J, GEO 402, GEO 403



### *Archaeology Laboratory*

The Archaeology Laboratory located in 317 Bailey Hall provides facilities for research in archaeology and related areas. Current collections include casts of nonhuman primates and fossil hominids, a comparative faunal collection, and various research collections, primarily from Maine and Alaska. The Archaeology Laboratory also houses a small library including books, journals, slides, and maps. Opportunities are available for independent student research projects, and work-study positions are available in the laboratory each semester.

### *Cartography Laboratory and Map Collections*

The Cartography Laboratory located in 323 Bailey Hall provides facilities for map making and air photo interpretation. The room is open for faculty and student use daily. An extensive map collection is housed in 318 Bailey Hall. Holdings include national Defense Department maps, Maine maps, topographic maps, and various world regional maps. Student proctors are available to offer assistance.

### *GIS Laboratory*

The Geographic Information Systems (GIS) Laboratory provides facilities for computerized automated research of geographical data. The GIS Laboratory includes tools for running vector-based geographic information systems, and has the capacity for hand-digitizing images and producing multi-color output.

### *The Maine Geographic Alliance*

The Maine Geographic Alliance (MGA) is a network of educators and other citizens dedicated to improving geographic education in Maine. Activities include in-service workshops, technical assistance, materials distribution, a newsletter and summer professional teaching institutes for Maine teachers both in-state and at selected sites from coast to coast. The MGA is sponsored by the National Geographic Society and other public and private agencies. Membership is free. Contact the MGA at 318 Bailey Hall or call 780-5598.

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## *Geography-Anthropology*

### **GYA 215 Culture and Place**

This course provides an introduction to the ways in which basic principles of ethnography, ethnohistory, and material culture studies can be used to understand the cultural landscape of cities. Normally offered during either the Winter Session or the Summer Session, the course will usually be conducted in a setting outside Maine. The emphasis will be on collaborative research skills, understanding of other cultures, and appreciation of the interrelationship of anthropology and geography. Cr. 4-6.

### **GYA 300 Archaeology Field School**

The summer field school is designed to combine training in research methods of archaeology and geography. Students will receive intensive training in methods of site survey excavation and materials analysis. Several weeks will be spent at selected areas of coastal Maine involved in survey and excavation of sites, mapping sites and landscape features, and investigating potential food resources in site areas. This will be followed by some laboratory analysis of recovered materials. This course may be repeated twice with the permission of the instructor. Cr 4-6.

### **GEO/GEY 360 Field Mapping in the Island Environment: Data Collection to GIS**

The coast of Maine provides a unique laboratory for teaching environmental mapping, data compilation, and data management. In this course students are trained and equipped to use kayaks as the platform from which to conduct survey work for the preparation of small-scale high-resolution analytical maps of natural, historical, and archaeological phenomena. Field techniques used include topographic surveying, global positioning system (GPS) operation, and field mapping of geological and geographical features. Minimum impact methods are used throughout. Laboratory techniques used include air-photo interpretation, traditional cartography, and geographic information system (GIS) operation. The course culminates in the completion of a portfolio of maps and a GIS data-base covering the area surveyed. Prerequisites: junior/senior standing or permission of instructor. Cr 6.

### **GYA 350-351 Internship in Applied Geography-Anthropology**

Internships offer the student practical experience in working with public agencies, private firms, and municipalities engaged in applied

geographical-anthropological activities including, but not limited to, planning, transportation, delivery of human services, and natural resources.

A written contract will be drawn up by advisor and student for each internship, specifying the number of credits sought and work required for these credits. As a general rule, internships will require at least eight hours of actual work per week. Interns will be expected to meet at least once every two weeks with instructor to discuss experiences and/or problems.

In addition, a major paper will be required from each student intern discussing an aspect of the internship or the work performed during the

internship. The paper will be presented by the student at the end of the semester to a departmental seminar on applied geography-anthropology. Prerequisite: junior or senior standing in geography-anthropology. Cr1-6.

### **GYA 400 Independent Study in Anthropology or Geography**

The Department faculty offers independent study in a topic in anthropology or geography for upper-level students (junior and senior status). Students must have had at least one course from the faculty member supervising the independent study; the proposal is subject to departmental approval. Variable credits will be offered.

## *Anthropology*

### **ANT 101J Anthropology: The Cultural View**

This course is a basic introductory survey of cultural anthropology. It examines the differences between cultures as well as cultural universals, and the relationship between social organization, ideology, economics, and political structure in different types of societies. It reviews the various theoretical approaches in cultural anthropology's attempt to explain human behavior, presenting examples from foraging, farming, and contemporary industrial societies through readings and films. Cr 3.

### **ANT 102K Biological Anthropology**

This course examines our place in nature; the relationship between human biology and culture; the relevance of primate behavior and human evolution to understanding contemporary human society; human biological adaptations, including a discussion of population and nutrition; and contemporary human variation with an evaluation of the concept of race. The course includes a required 2-hour lab each week that provides practical experience with materials and research methods used by biological anthropologists. Cr 4.

### **ANT 103 Introduction to Archaeology**

Introduction to Archaeology describes the methods and theories used by modern archaeologists to uncover information about past human life ways. Attention is given to techniques of survey and excavation of archaeological materials; concepts of space and time in archaeology; and detailed analysis of artifacts and organic residues. Some attention will be given to specific topics such as the archaeology of Maine. Cr 3.

### **ANT 201J Human Origins**

This course focuses on the fossil and cultural evidence for human evolution. Topics to be covered include evolutionary theory, primate behavior, hominid origins, the taxonomy and phylogenetic relationships of fossil hominids,

Pleistocene cultural adaptations, and the origin of modern *Homo sapiens*. The relationship between biology, geography, and culture is explored using the skeletal and archaeological evidence for human evolution. Cr 3.

### **ANT 202I Origins of Civilization**

This course traces the evolution of human culture from the origins of farming and domestication, to the development of complex societies. General processes of urbanization and social stratification will be investigated, and examples will be drawn from throughout the Old and New Worlds, including the classical civilizations of the Near East, Southeast Asia, Mexico, and Peru. Cr 3.

### **ANT 213 Strategies for Survival**

This course examines interactions between human societies and their natural environments. Human adaptation is viewed as a problem-solving process, involving the development of strategies for maximizing energy efficiency and reproductive success, for warding off environmental stress, and for reducing conflicts. These management strategies are examined for a number of human societies, and are used to gain insight into modern decision-making processes. Prerequisite: ANT 101J or 102K. Cr 3.

### **ANT 220I North American Indians**

This course combines an ethnographic and archaeological perspective on the culture history and traditional cultures of native North Americans. Emphasis is placed on the relationship of aboriginal native cultures to their environments, and the evolution of complex societies in certain regions of North America. Also included is discussion of the fragmentation of Indian societies that followed the European invasion of North America. Cr 3.

### **ANT 222I Peoples of the North**

This course is designed as a comprehensive summary of the prehistory, traditional culture,

and contemporary life ways of peoples living in the northern hemispheres of both the Old and New Worlds—from Maine to Alaska, and from Siberia to Lapland. Special attention will be given to the origins of these peoples; the problems of living in cold, northern environments; the effects of European contact; and the modern problems that they face ranging from the effects of urbanization to land claim disputes. Prerequisite: ANT 101J or 103 or permission of instructor. Cr 3.

#### **ANT 230I Hunters and Gatherers**

Hunting and gathering is a way of life, not simply a subsistence technique. Ninety-nine percent of human evolutionary history involved this kind of life, and our biology as a species was created through this mode of existence. In this ethnographically oriented course we will study several hunter-gatherer societies including the !Kung San, the Mbuti, the Australian abo rigines, and the Inuit. Special attention will be given to understanding the traditional life and world view of hunter-gatherers, but we will also focus on how recent political and economic events are changing their lives. Cr 3.

#### **ANT 232I The Anthropology of Sex and Gender**

Sex and gender are, respectively, biological realities and cultural constructs. This course will examine the anthropology of sex and gender in an evolutionary-biological and cross-cultural perspective. The course is organized to explore the issues of sex and gender in three of the major subfields of anthropology: archaeology and biological and cultural anthropology. Topics will include bias in science, the biology and evolution of sex differences, sex-linked behaviors, nonhuman primates, human evolution and the division of labor, and sex roles in different kinds of human societies. Cr 3.

#### **ANT 240 Primate Behavior**

This is a general course in primatology. Although the focus will be ethological, we will also consider primate biology, ecology, and biogeography. Aspects of primate behavior that will be considered include social organization, aggression, dominance, the mother-infant bond, play, sex roles, and intergroup relationships. We will also examine attempts to teach language to non-human primates and will consider the use of primates in models of human evolution. Prerequisite: ANT 102K or permission of instructor. Cr 3.

#### **ANT 250 Archaeology of South America**

This course is designed as a comprehensive summary of prehistoric cultures and paleo-environmental conditions of South America. Emphasis is placed on the evolution of complex societies in the Andean and Pacific coast

regions. Also included is a discussion of European contact and interaction with the Inka State. Cr 3.

#### **ANT 301I Victims of Progress: Indigenous Peoples in the Modern World**

This course examines the disappearance of indigenous societies as a result of the expansion of industrial society, and the implications of such a process for the future of humanity, from both a scientific and humanistic point of view. It also discusses the role of anthropology in explaining and promoting culture change, and reviews the various philosophies of development exhibited in modern society. Prerequisite: ANT 101J. Cr 3.

#### **ANT 302 Medical Anthropology**

This course considers the interface between medicine and anthropology in terms of both human biology and society. The course develops concepts of health as effective adaptation to environmental stresses, including infectious disease, nutritional stress, and psychosomatic illness, among others. It traces the history of health and disease in human society from hunter-gatherers to modern urban, industrial communities, and examines the way in which human populations have attempted to deal with various agents of disease. The course examines the diversity of human theories of disease causation and explores the role of modern medicine in effective health care delivery to persons of different cultural and ethnic backgrounds. Prerequisite: ANT 101J, 102K or permission of instructor. Cr 3.

#### **ANT 303I Food and Culture**

This course focuses on food as an essential and central part of human experience. We will examine the anthropology of food and food habits, including an evolutionary-ecological perspective, the reconstruction of past human diets from archaeological evidence, and a cross-cultural examination of the diversity of human food preferences and avoidances. An important goal of the course will be to try to understand and appreciate cultural differences in food habits from both an ecological and a societal point of view. Cr 3.

#### **ANT 305 Models in Archaeology**

Using archaeological data, archaeological anthropology tests a wide range of hypotheses about human society. The introduction of the hypothesis testing approach into archaeology is the result of recent expansions in theory and methodology. The literature discussing those theoretical and methodological developments will be critically evaluated by the student. Special attention will be given to reconstruction of prehistoric subsistence and settlement, and application of theory to public (conservation) archaeology. Prerequisite: ANT 103. Cr 3.

### **ANT 306 Archaeological Laboratory Analysis**

Students will be introduced to the analysis of materials collected on an archaeological site. Their work will be centered on the results of previous summers' archaeological excavations. Research projects will be associated with the same materials. Lecture material will focus on environmental archaeology, with special attention given to topics such as faunal analysis. This course may be repeated twice with the permission of the instructor. Prerequisite: ANT 103. Cr 3.

### **ANT 310 History of Anthropological Thought**

This course is a historical survey of theory in anthropology from the early classical evolutionists to contemporary materialist and idealist approaches. It will examine the various theories in terms of their level of analysis, explanatory value, and relationship to the western society from which they emerged. This course is a requirement for those concentrating in anthropology. Prerequisite: ANT 101J or permission of instructor. Cr 3.

### **ANT 320 Human Osteology**

This course provides an introduction to the study and analysis of human skeletal material found at archaeological sites. We will focus on learning detailed human skeletal anatomy and the various metric and non-metric techniques used in aging, sexing, stature determination, and analysis of pathologies and injuries. Consideration will be given to how these techniques are applied in demographic and other analyses of prehistoric human populations. Prerequisite: ANT 102K or ANT 103 or permission of instructor. Cr 3.

### **ANT 350 Amazon Peoples and Development**

In recent years the alarm has been sounded about the rapid destruction of the Amazon rain forest and the unknown consequences of the loss of perhaps one-third of the world's species; less attention has been paid to the extinction of systems of knowledge and survival developed over the millennia by the indigenous forest peo-

ple, not the least of which is how to live sustainably in the complex ecosystem in a rich diversity of cultures. In this course, students will examine these cultures for what they can teach us, as well as the effects of colonization and "development" on the forest and its inhabitants. Prerequisite: ANT 101J. Cr 3.

### **ANT 410 Zooarchaeology**

Zooarchaeology, the study of animal remains from archaeological sites, provides information for archaeologists about human diet and subsistence practices through time. The course will offer the basic theoretical and methodological foundations of zooarchaeological analysis, focusing on the study of mammalian bones recovered from archaeological sites. The approach will be lab-oriented, with emphasis on learning techniques of analysis and on interpreting archaeological faunal assemblages, in order to understand the relationship between animals and the human activity patterns involved in securing and processing animals for food and other useful materials. Prerequisite: ANT 102K, ANT 103, or a course in archaeology. Cr 3.

### **ANT 450 Topics in Anthropology**

This course is designed to undertake detailed, in-depth analysis of important topics and issues in such subfields of anthropology as sociocultural anthropology, biological anthropology and archaeology. Topics vary from semester to semester. Research papers are required. Prerequisite: junior standing or permission of instructor. Cr 3.

### **ANT 455 New England Historic Archaeology**

A study of the theories and methods used by archaeologists with an emphasis on how archaeological data and artifacts help us understand the social, cultural, and material life of New England's past. Some attention will be paid to comparative regional archaeology. This is the same course as American and New England Studies (ANES) 655. This course is open to geography-anthropology majors with at least one course in archaeology, or by permission of instructor. Cr 3.

### **GEO 101J Principles of Geography**

This course applies a problem-solving approach to the learning of basic geographic skills and concepts. Cultural factors are emphasized in presenting human/environment relationships as seen from the geographer's point of view. The course is prerequisite for most upper-level geography courses and required for all majors in geography-anthropology. It also provides models and concepts useful in many other disciplines. Cr 3.

### **GEO 102K Physical Geography**

This course examines the physical processes of the environment as they relate to human endeavors. Climate, soil, vegetation, land form, water, and mineral resources are among the topics covered. Laboratory exercises acquaint the student with the materials and methods of physical geography. Climate data, topographic maps and field observations are employed to solve practical problems of human interaction with the environment. Cr 4.

### **GEO 120J Geography of Maine**

This course will examine Maine as a geographic region. Physical and cultural attributes of the state will be analyzed. Political, economic and demographic factors will be emphasized in viewing the assets and problems of the Maine environment and in planning Maine's future. Cr 3.

### **GEO 201I Cultural Geography**

This course revolves around such components of culture as religion, art, music, settlement, economy type and their relation to one another. Concepts include spread, integration, and landscapes of culture. A problem oriented discussion format is used to relate the ideas of other cultures to our own. Prerequisite: GEO 101J. Cr 3.

### **GEO 205 Air Photo Interpretation**

This course deals with the earth as perceived from the air and space. Hands-on analysis of various types of imagery includes basic photogrammetry plus air photo and satellite remote sensing interpretation. Applications to land use planning, archaeology, geology, and military science are among the topics covered. Recommended as a companion course to Cartography 204. Cr 3.

### **GEO 207 Map Appreciation**

This course is intended to provide a basic understanding of ways maps can serve the individual and the role maps can play in geography, science, business, the media, and historical studies. Various techniques that show linkage, flow, pattern, and comparison will be explored. Contemporary maps from various fields, as well as notable examples from the past, will be analyzed. Special themes will include mental maps, municipal maps, imagery from space, and the use of maps as propaganda. Non-majors are welcomed and encouraged to pursue projects in their chosen fields. Prerequisite: GEO 101J or 208 or permission of instructor. Cr 3.

### **GEO 208 Cartography I**

This is an introductory course in cartography focused on developing basic mapping and graphic communication skills essential to a wide variety of disciplines. The course will be flexible and adjusted to individual needs. Familiarization with basic charting technology and cartographic tools will be included. This course is required for all majors concentrating in geography. Cr 3.

### **GEO 209 Introduction to Land Use Planning**

This course offers an overview of human/land relationships as they influence contemporary patterns of settlement and use of the land. It will discuss the logic of a planning process as a method of decision making; the formulation of goals and evaluation of alternative courses of action; standards and requirements for specific

planning objectives (such as land use, energy, recreation, transportation); and the place of the planning function in government and the role of citizens and private groups. Introduction to basic planning tools and techniques including PERT, aerial photography, and methods of land inventory and classification will be presented. Cr 3.

### **GEO 210 Planning Maine Communities: Current Issues and Directions**

This course will examine the issues facing Maine communities such as providing affordable housing, maintaining and improving the community's physical facilities such as streets, sewers, playgrounds, etc., disposing of solid and hazardous wastes, stimulating jobs and economic development, providing adequate transportation facilities, and preserving Maine's environment and lifestyle in the face of growth. It will also address how these issues can be addressed through the use of the planning process and sound planning techniques. Cr 3.

### **GEO 212 Regional Geography of Western Europe**

There is a triad of capitalist powers dominating world geography: western Europe, Japan and the United States. This course develops a geographical analysis focusing on the western European element within this triad. The analysis is developed in three parts: a discussion of physical, historical, social, cultural, and political-economic forces determining the regional character of western Europe; a discussion of the relationship between western Europe and the other elements of the triad; and a discussion of the relationship between global and local geographies, as exemplified in the European case. The interaction between space, time and location, and the influence of these factors in determining regional characteristics is stressed throughout. Prerequisite: one of the following: GEO 101J, ANT 101J, POS 104J, HTY 102I. Cr 3.

### **GEO 220 International Geography**

This course will use recent global events to increase students' knowledge of geographic locations and influences. Up-to-date insights and assessments of regions and countries will be examined by selective readings, maps, videos, lectures, and class discussions. Particular emphasis will be placed on the former Soviet Union, the Middle East, the European community, South America, and the polar regions. Cr 3.

### **GEO 301 Political Geography**

This course examines geo-political theories and ideas, analyzes current and long-lasting political problem areas, and deals with some of the locational results of political decisions.

Prerequisite: Introductory course in geography-anthropology or POS 104J. Cr 3.

### **GEO 303J Economic Geography**

This course presents an examination of classes of economic activities and explains the reasons for their location. There are two major objectives: to make available to the student the skills which allow him or her to interpret and understand the present economic landscapes and to evaluate the factors and trends that anticipate the future. Prerequisite: GEO 101J or ANT 101J or permission of instructor. Cr 3.

### **GEO 304 Social Transformation of Nature**

The premise of this course is that "nature" *per se* does not exist, but rather that human social action and "natural" environmental processes are inextricably intertwined. In the context of a history of human-environment interaction in the Holocene (10,000 B.P.-present) the historically and socially contingent character of human social transformation of the environment is analyzed. Three "epochs" of human environment interaction are defined: primitive communism, tributary society, and capitalism. Each is characterized by a distinctive set of human-environment transactions, the creation of a distinctive environmental dynamic and the emergence of a distinctive social construct of "nature." In conclusion, the "nature" thus created is considered as a determining factor in the creation of society. Prerequisite: one of the following: GEO 102K, ANT 102K, GEO 101J, GEY 111K, or BIO 331. Cr 3.

### **GEO 308 GIS I**

Students are introduced to the skills necessary to run a vector-based geographical information system (GIS). Topics covered are the characteristics of line, point, area, and boundary data, numerical data entry, digitizing, data manipulation, and output generation. Possible sources of confusion and error, both of system operation and of output interpretation, are reviewed. The course comprises a weekly lecture and a weekly laboratory. Prerequisite: GEO 208 and one of the following: GEO 102K, GEO 201I, GEY 202. Cr 3.

### **GEO 402 Urban Geography**

This course deals with the American city as a type. Urban centers are dealt with at two levels—as whole entities in which location, characteristics, growth, and relations with the countryside are explored, and as complex nodal regions in which the internal variations of the city are examined. Prerequisite: GEO 101J or permission of instructor. Cr 3.

### **GEO 403 Urban Physical Geography**

Cities have a landscape dynamic as complex and mutable as any environmental system. Yet they differ from other systems in two respects: they display an unprecedented concentration and diversity of planned and unplanned human impacts on environmental processes; they display process regimes articulated by social, political, cultural, and economic forces. This course explores the consequences of these differences in the context of a discussion of flows of energy, matter, and information through the urban environmental system. Combining critical reading, discussion, and field work, the course explores existing environmental process-response models and adapts them to the urban case, concluding with an attempt to synthesize the human and the physical dynamics of the urban environment within a single explanatory framework. Prerequisite: GEO 102K and one of the following: GEO 402, GEY 202, BIO 331. Cr 3.

### **GEO 408 GIS II**

This weekly seminar emphasizes the use of geographic information systems (GIS) in research environments. It has two components: project planning and project execution. Project planning focuses on hypothesis generation, definition of legitimate areal units for data collection, data collection techniques, and data base construction. Project execution is undertaken using PC ARC/INFO and focuses on the GIS as a spatial analytical tool. Prerequisite: GEO 308. Cr 3.

### **GEO 450 Topics in Geography**

This course provides in-depth analysis of relevant topics from the perspective of an economic, political, cultural, regional or other focused approach to geographic study. The topics vary depending upon current issues of significance and the special background of the instructor. Research papers are required. Prerequisite: permission of Department. Cr 3.

# Geosciences

*Chair of the Department:* Mark Swanson, 112C Bailey Hall, Gorham  
*Professor:* Pollock; *Associate Professors:* Hayes, Novak, Pendleton, Pollock, Swanson; *Assistant Professors:* Fitts, Sandberg; *Laboratory Associate:* Vose

## *Programs and Requirements*

Courses offered by the Department of Geosciences are grouped under the following headings: Oceanography and Geology.

Two degree programs are offered for geology majors: a bachelor of arts in geology and a bachelor of science in geology. The B.S. degree places more emphasis on mathematics and computer science than does the B.A. degree. Students majoring in geology must achieve a 2.0 grade point average and have no D grades in geosciences courses.

### *Geology*

The geology major is available for those students interested in environmentally related employment, or for those who plan to pursue a professional career in geology. Geology majors intending to pursue graduate work are urged to determine graduate school requirements in foreign languages, mathematics, computer science, and chemistry; some additional courses in these areas may be required for graduate work. Students are encouraged to consider concentrations in allied areas such as biology, chemistry, physics, mathematics, computer science, economics, and geography.

### *Bachelor of Arts in Geology*

The minimum number of credits (excluding the University's Core curriculum) required for the major: 71.

Required Chemistry: CHY 113K & 114K & 115 & 116 Principles of Chemistry.

Required Physics: PHY 121K & 122K & 123 & 124 General Physics or PHY 111K & 112K Elements of Physics.

Required Mathematics: MAT 120D Introduction to Statistics, MAT 152D Calculus A. It is recommended that freshmen in the geology major who lack at least two years of high school algebra and a semester each of geometry and trigonometry take MAT 140D Precalculus Mathematics.

Required Geosciences: GEY 111K & 112K Physical Geology, GEY 113K & 114K Historical Geology, GEY 202 Geomorphology, GEY 203 Mineralogy, GEY 204 Optical Mineralogy, GEY 206 Paleontology, GEY 301 Structural Geology, GEY 302 Sedimentology, GEY 303 Igneous and Metamorphic Petrology, GEY 327 Hydrogeology, GEY 491/492 Senior Thesis in Geology or GEY 498 Independent Study in Geology, GEY 495 Geology Seminar, GEY 496 Special Topics in Geology.

Elective Geosciences: In addition to the required geosciences courses listed above, students are required to take six credit hours of elective geosciences courses. Elective geoscience courses include all geosciences courses at the 200-level or above which are not included in the list of required geosciences courses.

### *Bachelor of Science in Geology*

The minimum number of credits (excluding the University's Core curriculum) required for the major: 78.

Required Chemistry: CHY 113K & 114K & 115 & 116 Principles of Chemistry.

Required Physics: PHY 121K & 122K & 123K & 124 General Physics.

Required Mathematics: MAT 152D Calculus A, MAT 153 Calculus B, MAT 252 Calculus C. It is recommended that freshmen in the geology major who lack at least two years of high school algebra and a semester each of geometry and trigonometry take MAT 140D Precalculus Mathematics.

Required Computer Sciences: COS 101D Quantitative Decision Making Using Computers, or COS 160 Structured Problem Solving: Pascal and COS 170 Structured Programming Laboratory, or COS 211 The C Programming Language.

Required Geosciences: GEY 111K & 112K Physical Geology, GEY 113 & 114 Historical Geology, GEY 202 Geomorphology, GEY 203 Mineralogy, GEY 204 Optical Mineralogy, GEY 301 Structural Geology, GEY 303 Igneous and Metamorphic Petrology, GEY 327 Hydrogeology, GEY 496 Special Topics in Geology.

Elective Geosciences: In addition to the required geosciences courses listed above, students are required to take 12 credit hours of elective geoscience courses. Elective geoscience courses include all geosciences courses at the 200-level or above which are not included in the list of required geosciences courses.

### *Minor in Geology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 20.

Required courses: GEY 111K/112K; GEY 113/114; GEY 203; GEY 301; GEY 202 or GEY 302.

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## *Oceanography*

### **OCE 100K Introduction to Oceanography**

Origin and extent of the oceans; nature of the sea bottom; causes and effects of currents and tides; chemical and physical properties of sea water; animal and plant life in the sea. Three hours lecture. Cr 3.

### **OCE 101K Oceanographic Laboratory**

A laboratory course in which the student is introduced to some of the techniques and technical processes involved in oceanic measurements and data reduction. Prerequisite: OCE 100K which may be taken concurrently. One two-hour laboratory session each week. A laboratory fee is assessed for this course. Cr 1.

## *Geology*

### **GEY 110K Field Studies in Environmental Geology on the Island of Lesbos, Greece**

This course will consider the basic and applied geology of the eastern Aegean Sea with particular emphasis on the island of Lesbos, Greece. The course is a cooperative effort with the Department of Environmental Studies of the University of the Aegean. Rocks, minerals, and topographic maps will be studied for the purpose of interpreting the bedrock geology, geomorphology, and hydrogeology of the region. Other topics will include remote sensing, aerial geology, tectonics, use of the Brunton compass, waste disposal, coastal processes, and the impact of development. The course will consist of lectures, laboratory experiences, and field trips to many parts of the island. Offered Summer Session only. Cr 4.

### **GEY 113 Historical Geology**

Study of the earth's history in terms of physical, chemical and biological change from its origin to the present time, stressing the methods of determining chronology and conditions through fossils and structural characteristics. Prerequisites: GEY 111K, 112K. Two hours of lecture. To be taken concurrently with GEY 114. Cr 4.

### **GEY 111K Physical Geology**

A study of the ever-changing earth by wind, water, volcanism, plate tectonics, and glaciation. Three hours of lecture. GEY 111K may be taken without GEY 112K. Cr 3.

### **GEY 114 Historical Geology Lab**

A study of rocks, minerals, and fossils to determine the geological conditions at some ancient time. Introduction to paleogeographic and geologic maps. Field trips. To be taken concurrently with GEY 113. Three hours. Cr 0.

### **GEY 112K Physical Geology Lab**

Identification of common rocks and minerals, introduction to topographic maps, and development of the processes covered in lecture; field trips when weather permits. To be taken concurrently with GEY 111K. Lab two hours. A laboratory fee is assessed for this course. Cr 1.

### **GEY 202 Geomorphology**

Description and interpretation of landform development in terms of geologic structure, process, and stage. One, possibly two, weekend field trips. Prerequisites: GEY 113, 114. Two hours lecture. Two hours lab. Cr 4.

### **GEY 203 Mineralogy**

An introduction to crystallography and a study of the physical properties and chemical structures of common rock-forming minerals. Laboratory analysis is an important part of the course. Three hours lecture. Three hours lab. Prerequisites: GEY 111K, 112K. CHY 113, 114 (may be taken concurrently). Cr 4.



### **GEY 204 Optical Mineralogy**

The principles of crystallography and crystal optics are presented as the basis of a practical approach to the identification of minerals with a petrographic microscope. The laboratory is an important part of the course, providing practical applications of the theory and methods covered in the lecture. Prerequisite: GEY 203. Lecture three hours. Lab four hours. Cr 4.

### **GEY 205 Geological Oceanography**

The origin and structure of the continental shelves and ocean basins. Coastal and oceanic processes; geomorphic development of the marine environment. Prerequisites: GEY 111K, 112K or OCE 100K or permission of the instructor. Three hours lecture. Cr 3.

### **GEY 206 Paleontology**

A description and classification of the important phyla of the fossil invertebrates and a survey of their use in biostratigraphic, evolutionary, and paleoecologic studies. One weekend field trip. Prerequisites: GEY 113, 114. Two one-hour lectures and one two-hour lab per week. Cr 3.

### **GEY 210 Field Trips in the Geology of Coastal Maine**

This course offers the opportunity to examine firsthand the exquisite and complex bedrock geology of southern coastal Maine through a series of summer field trips to key localities. Preliminary lectures will outline the expected rock types, structures and geologic history for each field trip. Cr 3.

### **GEY 250 Library Research in the Earth Sciences**

This course is specifically designed to help earth science students develop skills in recognizing research topics and then developing a strategy to find information pertaining to those topics. This course is applicable to all fields of study but the examples and references focus on the earth sciences. Prerequisite: sophomore standing. Cr 1.

### **GEY 301 Structural Geology**

An introduction to the mechanics of rock deformation, faulting, jointing, top-bottom criteria, and metamorphic foliations. The lab includes problems in descriptive geometry, stereonet, the Brunton compass, geologic maps and cross sections, and analysis of polyphase folding. Prerequisites: GEY 111K, 112K and GEY 113, 114. Field trips. Three hours lecture, two hours lab. Cr 4.

### **GEY 302 Sedimentology**

Principles of sedimentation, facies, nomenclature, and sedimentary processes and environments. Students will analyze common field

problems associated with these areas. Prerequisite: GEY 203. GEY 202 recommended. Some weekend field trips. Two hours lecture, three hours lab. Cr 4.

### **GEY 303 Igneous and Metamorphic Petrology**

The study of the origin of igneous and metamorphic rocks. Topics include operational thermodynamics as applied to igneous and metamorphic rocks, crystallization of silicate systems, mineral equilibria and paragenesis. Laboratory studies include work with hand specimens and thin sections. One or more day or weekend field trips. Prerequisite: GEY 204. Three hours lecture, four hours laboratory. Cr 4.

### **GEY 304 Sedimentary Rocks**

A study of stratigraphic principles, facies, paleocurrents, and sedimentary basins. The petrology of the sedimentary rocks is considered from burial to the onset of very low grade metamorphism. Prerequisite: GEY 204. (May be taken concurrently.) Three hours lecture, two hours laboratory. Cr 4.

### **GEY 310 Glacial and Pleistocene Geology**

Glacial processes, deposits, and the stratigraphy of the Pleistocene Epoch. Emphasis on the erosional and depositional features of glacial events in Maine. One, possibly two, weekend field trips. Prerequisite: GEY 202. Two hours lecture, two hours lab. Cr 3.

### **GEY 327 Hydrogeology**

This is an introductory groundwater course covering the following topics: water balance, basic fluid mechanics, groundwater flow equations, flow to wells, flow in various geologic environments, groundwater quality, and groundwater pollution. Some case studies will be included. Prerequisites: GEY 111K, CHY 113 (may be taken concurrently), MAT 152D, and PHY 111K or 121K, or permission of instructor. Three hours lecture, two hours lab/recitation. Cr 4.

### **GEY 350 Geological Field Methods**

A course in geological field methods intended to introduce to the student the tools and practical techniques used in collecting, compiling, and analyzing geological data. Students will have assignments in the igneous/metamorphic and surficial terrain of southern coastal Maine and sedimentary and volcanic terrain in eastern coastal Maine. Summer. Five weeks. Prerequisites: GEY 111K, 112K and GEY 113, 114, GEY 203, GEY 301. Recommended: GEY 302, GEY 303, GEY 202. Cr 6.

### **GEY 360 Field Mapping in the Island Environment: Data Collection to GIS**

The coast of Maine provides a unique laborato-

ry for teaching geologic and environmental mapping, data compilation and data management. In this course students are trained and equipped to use kayaks as the platform from which to conduct survey work for the preparation of small-scale high-resolution analytical maps of natural, historical, and archaeological phenomena. Field techniques used include topographic surveying, global positioning system (GPS) operation, and field mapping of geological and geographical features. Minimum impact methods are used throughout. Laboratory techniques used include air-photo interpretation, traditional cartography and geographic information system (GIS) operation. The course culminates in the completion of a portfolio of maps and a GIS data-base covering the area surveyed. Offered Summer Session only. Cr 6.

#### **GEY 405 Tectonics**

Major topics include the nature of the earth's crust and interior, continental drift, seafloor spreading, and plate tectonics. The evolution of mountain ranges, continents, and ocean basins will be studied on a global scale. Current articles in scientific journals will be discussed. Lab includes graphical, computer, and dynamic-clay modeling of plate tectonic processes. Prerequisite: GEY 301 or 303 or permission of instructor. Three hours lecture, two hours laboratory. Cr 4.

#### **GEY 427 Groundwater Modeling**

This course covers techniques for analyzing groundwater flow and transport problems. The topics covered include problem conceptualization, analytic modeling, and numerical modeling. Computer laboratory exercises will be used to demonstrate modeling methods. Prerequisite: GEY 327 or permission of instructor. Three hours lecture, two hours lab/recitation. Cr 3.

#### **GEY 428 Groundwater Contamination Seminar**

One subject pertinent to groundwater contamination will be examined in detail, using recent journal articles and case studies for reference. The subject will vary from year to year. Students will learn about physical and chemical processes and develop skills applicable to problems involving groundwater contaminant migration and remediation. Prerequisite: GEY 327 or permission of instructor. Cr 1.

#### **GEY 490/491 Senior Thesis**

The Senior Thesis is designed for the senior level student to pursue independent research in geology. The thesis is designed to be a scholarly effort in culmination of the student's baccalaureate program. Cr 3.

#### **GEY 495 Geology Seminar**

The seminar is meant to provide the geology major with an overall view of the discipline as well as the opportunity to discuss, read, and report about specific topics in the field. Current problems, research, and philosophy of geology will be included. Prerequisite: senior standing. Cr 1.

#### **GEY 496 Special Topics in Geology**

A critical and in-depth investigation of one of various topics and issues in different areas of geology (e.g. petrology, paleontology, tectonics, geomorphology). Prerequisite: senior standing. Cr 1.

#### **GEY 498 Independent Study in Geology**

To provide junior and senior majors who have demonstrated critical and analytical capability an opportunity to pursue a library, laboratory, and/or field project independently. Topic selection to be arranged mutually between student and faculty in the semester preceding planned registration. Prerequisite: junior or senior standing. On demand. Cr 1-3.

### *Physical Science/Earth Sciences*

#### **PSC 498 Independent Study in the Physical Sciences**

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, selecting a problem and exploring an area of interest in the physical sciences, bringing to it previous experiences and emerging with an intellectually sound, coherent synthesis or technical creation reflecting a high caliber of performance. Cr 1-3.

#### **EAS 300-301, 400-401 Cooperative Education in Earth Sciences**

The student has the opportunity to relate academic knowledge to practical experience in a job

situation. The University makes arrangements with certain institutions, businesses, and industries to employ qualified students for specific jobs for a set time period. The student's work is ordinarily in a related field and the work experiences increase in difficulty and responsibility as the student progresses through the sequence of courses. The experiences are approved on a case-by-case basis by the department. Evaluation is done through a written report done by the student together with the employer and a faculty supervisor. Prerequisites: junior class standing and a major in earth science. Each semester students may take each course only once. Cr 1-5.

# History

*Chair of the Department:* Joel W. Eastman, 311 Luther Bonney Hall, Portland  
*Professors:* Albee, Bibber, Cole, Dietrich, Eastman, Hunt, Long; *Associate Professors:* Eagan, Holden, Johnson, Padula, Ventresco, Whitmore

History in its largest sense is the record of humankind on this planet. Its central notion is action over time. It studies human actors and the morality and rationality of their activities. It also studies the patterns, dynamics, and interplay of significant events.

History helps the student to understand his or her place in the glories and calamities of the human experiment. It trains the student to collect, evaluate, organize, and interpret evidence. Students learn history through lectures, discussion, research, and writing.

History is a most useful preparation for graduate studies in a wide variety of fields. Some majors go into business, law, or teaching. Others go into government service, archival and library work, publishing, communications, and so on.

## ***Program and Requirements***

The Department of History offers a 40 credit-hour major which leads to a bachelor of arts in history and an 18-hour minor for students majoring in other disciplines. In addition, the Department offers an exchange program with King Alfred's College in Winchester, England, and an internship program in cooperation with area historical societies, museums, libraries, and other institutions. Departmental offices have information on all of these programs.

Majors should, after consultation with an advisor, focus at least three of their history electives (300-level courses) upon a particular country, continent, era, or theme of their choosing and select courses from other departments that complement this concentration. It is strongly recommended that majors, especially those expecting to undertake graduate study, acquire proficiency in a foreign language.

A history major or minor must achieve at least six credits of B or better grades in history courses. No grade of D will count toward fulfillment of a history major or minor. No required course may be repeated more than once. Unusually well-prepared entering students may, upon passing an examination, gain exemption from any of the required courses. College Level Equivalency Program (CLEP) examinations are available in Western Civilization and United States history. Students may be exempted from HTY 200 Reference, Research and Report Writing by taking a Departmental examination. Majors and minors are reminded that, in addition to Department requirements, they must also meet those of the University Corecurriculum.

### *Bachelor of Arts in History*

To graduate with a bachelor of arts in history, a student must successfully complete a minimum of 40 credits in history courses as follows:

#### Field I

HTY	101I	Western Civilization I
HTY	102I	Western Civilization II
HTY	131I	United States History to 1877
HTY	132I	United States History Since 1877

#### Field II (select two)

HTY	152I	The Islamic Near East
HTY	161I	African History to Partition
HTY	162I	African History Since Partition
HTY	171I	Traditional East Asia
HTY	172I	Modern East Asia
HTY	181I	Latin America I
HTY	182I	Latin America II

#### Research methods course

HTY	200	Reference, Research and Report Writing
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#### Research paper course (taken concurrently with HTY 303 to HTY 394)

HTY	395	Research Paper
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#### Elective advanced history courses

### *Minor in History*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

Students majoring in CAS disciplines who desire a concentration in history may develop an 18 credit-hour minor. The program of study must focus upon a particular country, continent, era, or theme of their choosing. The program must be developed in cooperation with a member of the history faculty and include the two-semester survey sequence appropriate to the focus.

Requirements: appropriate two-semester survey sequence and four elective advanced history courses (approved by advisor and Department chair).

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#### **HTY 101I Western Civilization I**

A basic survey and introduction to the heritage of Western society from ancient to early-modern times. Particular attention is given to the ancient civilizations of Egypt, Greece and Rome. Medieval civilization is explored with a focus on the institutions it bequeathed to the modern world. The Renaissance and Reformation and the rise of the great nation-states are studied. Throughout the course important individuals are considered such as Alexander the Great, Caesar, Charlemagne, Michelangelo, and Elizabeth I. The course also introduces students to historical method.

Cr 3.

nonIslamic people both within and without the region. Cr 3.

#### **HTY 161I Introduction to African History to Partition**

A survey of African history from early migrations to the beginning of the Colonial era. The approach is both regional, stressing selected countries representative of their regions, and topical, cutting across political boundaries. Topics include the states of the Sudan, city states of East Africa, Islam, the slave trade, exploration, and partition.

Cr 3.

#### **HTY 102I Western Civilization II**

A basic survey and introduction to the heritage of Western society from early modern times to the atomic age. Particular attention is given to the Enlightenment, the French Revolution, the rise of the industrial era, the growth of nationalism, and the World Wars. Personalities such as those of Napoleon, Hitler, and Stalin are studied. The course also introduces students to historical method.

Cr 3.

#### **HTY 162I Introduction to African History Since Partition**

A survey of the Colonial era, the transformation of African societies, the rise of nationalist movements, wars of liberation, and early years of the new era of independence.

Cr 3.

#### **HTY 131I United States History to 1877**

A basic survey and introduction to the field of American history, covering the political, social, and economic development of the United States through Reconstruction.

Cr 3.

#### **HTY 171I Traditional East Asia**

The history and culture of China and Japan from earliest times to about 1700, with emphasis on the composition of the "traditional" societies.

Cr 3.

#### **HTY 132I United States History Since 1877**

The course is a continuation of HTY 131. A survey of American political, social, and economic development since about 1877.

Cr 3.

#### **HTY 172I Modern East Asia**

China and Japan since about 1700, emphasizing contrasting moves toward modernization in two traditional societies.

Cr 3.

#### **HTY 152I The Islamic Near East**

This is a basic, introductory survey of the history of the eastern Mediterranean/Near Eastern region ca. 600 C.E. to the present. The course emphasizes the origin and development of Islamic religion and the establishment, spread, and evolution of Islamic institutions in Arabia, Egypt, Mesopotamia (Iraq), Palestine-Syria, and Anatolia (Turkey). Attention is given to the historical and continuing interaction between the Islamic people of the Near East and

#### **HTY 181I Latin America I**

This survey outlines the nature of the pre-Columbian Indian civilizations, their conquest by the European powers and the creation of the Hispanic and Portuguese empires in America.

Cr 3.

#### **HTY 182I Latin America II**

This survey begins with the shattering of Iberian colonialism, and moves rapidly into the 20th century. Special attention is given to Mexico, Brazil, Argentina and Cuba, and their varying solutions to the problem of national development.

Cr 3.

### **HTY 200 Reference, Research and Report Writing**

An introduction to research and writing, designed to prepare undergraduates for the requirements of upper-level courses in history and the social sciences with emphasis on practical methods of utilizing a library, locating materials, taking and organizing notes, and writing and rewriting research papers and reports. History majors are strongly encouraged to take this course in the sophomore year, but no later than the first semester of the junior year. Preference to history majors. Cr 3.

### **HTY 300 History Internship**

Professional experience in one of a variety of positions in public and private institutions that utilizes the knowledge and research skills of historians. Students work one day per week, keep a journal, write an evaluation, and are visited on the job by a faculty member. Open to selected students; see Professor Eastman for details. Graded pass/fail, so does not count for major credit. Can be taken twice. Cr 3.

### **HTY 303 History of the Ancient Near East and Greece**

This course surveys the early history of the eastern Mediterranean region from ca. 4000-ca. 300 B.C. The evolutions of near eastern civilizations in Mesopotamia, Egypt, Israel/Palestine, and Anatolia are examined and related to the development of Greek civilization in the Aegean area. Special attention is given throughout to social and religious issues, e.g., the early history of Judaism. Prerequisite: HTY 101I or equivalent. Cr 3.

### **HTY 304 History of Rome**

This course surveys the political, social, and religious history of the Roman state from the 8th century B.C. to the 5th century A.D. Emphasis is given to the period of the Roman Republic (509-31 B.C.) and to the rise of Christianity within the Roman Empire. Prerequisite: HTY 101I or equivalent. Cr 3.

### **HTY 311 Medieval Civilization**

Europe from late antiquity through the Carolingian Empire, Islamic Empire, Byzantine Empire, Medieval Church and State, and the coming of the Renaissance and Reformation. Prerequisite: HTY 101I or permission. Cr 3.

### **HTY 312 Renaissance and Reformation**

A study of the transformation of European society from the world of the Renaissance to the crisis of the Reformation. The course will concentrate on the development of Italian humanism and its influence on Northern Europe. The rise of the Reformation will be examined through the personalities of Martin Luther and John Calvin and the intense feelings that engen-

dered the religious wars and the Counter Reformation. Prerequisite: HTY 101I or permission. Cr 3.

### **HTY 316 French Revolution and Napoleon**

The course takes the French Revolution as a climax of major intellectual, political, and social trends in eighteenth-century Europe. Thorough coverage is given to the Old Regime, the Enlightenment and the influence of the American Revolution. There is in-depth analysis of the coming, course and outcome of the French Revolution itself, and its impact outside France. The Napoleonic era is handled as the culminating phase of the revolution and as a major influence on nineteenth-century Europe. Prerequisite: HTY 102I or permission. Cr 3.

### **HTY 317 Early Russian History**

A survey of the political, social, economic, and cultural history of the peoples of Russia to the midnineteenth century. The course covers geographical factors, the nature of Byzantine influence, the impact of invasions, and Russia's contacts with the West. Contrasts between the experiences of Russia and Western Europe are stressed; contrasts with other civilizations are also noted. Prerequisite: HTY 101I or HTY 102I, or permission. Cr 3.

### **HTY 318 Russia and the Soviet Union Since 1855**

A survey of the progression from autocratic to communist society, through such influences as internal pressures for reform, structural weaknesses, wars and invasions, and various ideologies. The role of the intelligentsia is noted in the 19th century; there is a strong emphasis on cultural aspects of Russian and Soviet developments. Prerequisite: HTY 102I or permission. Cr 3.

### **HTY 319 The Age of Revolutions and Romanticism (ca. 1815-1852)**

A study of Europe from the fall of Napoleon I to the middle of the 19th century. The course will focus on the impact of the French Revolution on European society and on the lingering revolutionary tradition. Specific revolutions and personalities will be examined within the framework of the Romantic Protest, especially in Germany, Italy, and France. Prerequisite: HTY 102I or permission of instructor. Cr 3.

### **HTY 320 Europe at the Turn of the Century (1871-1913)**

This course concentrates on the culture and politics of *fin de siècle* Europe. The pre-World War I society will be viewed from a variety of perspectives and will focus on various individuals who helped shape the times. Of particular interest will be the views and impact of Marx, Darwin, and Wagner within the framework of

the Industrial Revolution and Imperialism. Prerequisite: HTY 102I or permission. Cr 3.

### **HTY 324 World Wars I and II: European War and Diplomacy**

A study of the causes, course, and consequences of the First and Second World Wars. The questions of inevitability and responsibility, the nature of total war, the workings of alliances, the effect of the military upon politics, the wisdom of the peace settlements, and the impact of war upon European society are among the subjects to be considered. Prerequisite: HTY 102I or HTY 132I or permission. Juniors and seniors only. Cr 3.

### **HTY 326 History of England**

A survey of England from Anglo-Saxon times to the beginning of the 20th century, with emphasis on the nature of English monarchy, the development of political institutions, and evolving constitutionalism. Particular attention is given to broad movements such as the Reformation, the Industrial Revolution, and Imperialism. Prerequisite: HTY 101I or permission. Cr 3.

### **HTY 327 Italy, Unification to World War I**

A political, intellectual, diplomatic, and social history of Italy from the *Risorgimento* to the eve of World War I. Considerable emphasis will be given to the role of the Papacy in Italian affairs. Major literary figures to be examined will include Foscolo, Leopardi, Manzoni, Verga, and Carducci. Prerequisites: HTY 101I and HTY 102I or permission. Cr 3.

### **HTY 328 Fascist Italy**

This course examines the development, practice and theory of Fascism. Considerable attention will be centered on Benito Mussolini and his relationship to the Fascist Party, the people, the Catholic Church, and foreign affairs. Italian culture in the fascist era will be explored through literature and the arts. Prerequisite: HTY 102I or permission. Cr 3.

### **HTY 330 Germany: Bismarck To Hitler**

A study of the formation of the German Empire, the rise of a powerful industrial state, *Weltpolitik* and defeat in World War I, the Weimar Republic, Nazism and the Third Reich, Germany in World War II, and the partition of Germany in 1945. The course analyzes nationalism and examines cultural, social, and economic factors which help clarify Germany's role in the modern world. Prerequisite: HTY 102I or permission. Juniors and seniors only. Cr 3.

### **HTY 334 The Holocaust: Policy, Practice, Response**

An examination of the roots of anti-Semitism in European history, the development of the poli-

cy of the extermination of the Jews and others in Nazi Germany, and the implementation of the policy throughout Europe during the Second World War. The varied aspects of the response of individuals and governments to the experience of the Holocaust are also considered. Prerequisite: HTY 102I. Another course in 20th-century Europe or the United States is also recommended. Cr 3.

### **HTY 336 Leaders of the 20th Century: Churchill, Roosevelt, Hitler**

This course studies in-depth the lives of three major political leaders of the 20th century: Winston Churchill, Franklin Roosevelt, and Adolf Hitler. The approach is biographical, with considerable emphasis on the personality of each individual and his conduct in peace and war. An effort has been made to select contemporaries whose lives interrelate, thus providing a study of an era. Documentary film footage, slides, and readings will accompany lectures and discussions. Prerequisite: HTY 102I or HTY 132I or permission. Cr 3.

### **HTY 339 European Women's History**

A survey of women's lives in historical context, from ancient times to the 20th century. Emphasis is placed on various themes over time and across cultures, including those of work, family, political involvement, aspects of gender and class differences, and intellectual and cultural contributions. The field of women's history and its methodology are also considered. Prerequisite: a prior history survey course and/or a women's studies course are recommended. Cr 3.

### **HTY 351 Colonial America**

The first half of the semester is devoted to the discovery, exploration and colonization of the American colonies. The second half concentrates on the social and political development of these colonies, touching upon various aspects of colonial life and emphasizing the growing maturation of society. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 352 The American Revolution**

A study of the 1763-1789 period, stressing the breakdown of Anglo-American relations; American independence and its ideological underpinnings; the Revolutionary War; the postwar struggle to strike a balance between too much government and too little; and the drafting and ratification of the U.S. Constitution. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 354 Hamilton and Jefferson**

The 1789-1815 period as viewed through the lives of Alexander Hamilton and Thomas Jefferson. Their ideological struggle leading to the rise of the Federalist and Democratic-

Republican parties, and the political, economic and diplomatic challenges facing the infant United States will be considered extensively.

Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 355 The Age of Jackson, 1815-1850**

A study of the life and times of the "Old Hero" Andrew Jackson, with extensive consideration given to the rise of Jacksonian democracy and the impact on American politics of the controversies surrounding the Bank of the United States, internal improvements, the protective tariff, "Manifest Destiny," and the sectional-slavery issues. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 356 Civil War and Reconstruction**

An examination of the period 1850-1877, dealing with the background and causation of the war; Lincoln and the secession crisis; the military, political, diplomatic, and economic aspects of the Civil War; and the challenges and ultimate failure of reconstruction after 1865. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 357 The Gilded Age in America, 1869-1898**

The United States in the age of enterprise with emphasis on the development of political and economic radicalism, the commercialization of agriculture, the rise of the American city, new directions in social thought, concentration of industrial wealth and financial power, and American foreign policy. Prerequisite: HTY 132I or permission. Cr 3.

### **HTY 358 Early 20th-Century United States, 1898-1938**

The United States in the first four decades of the twentieth century with coverage of the Spanish-American War, the progressive movement, American entry into World War I, the Roaring Twenties, the Great Depression, and the domestic programs of the New Deal. Prerequisite: HTY 132I or permission. Cr 3.

### **HTY 359 America Since 1938**

The United States since the Great Depression with coverage of the foreign policy of the New Deal, the background to Pearl Harbor, World War II, the Fair Deal, the Cold War, the Eisenhower years, the New Frontier, and the Great Society. Prerequisite: HTY 132I or permission. Cr 3.

### **HTY 360 History of Maine**

A survey of Maine's social, economic and political life from exploration and early settlement to the present. Cr 3.

### **HTY 361 History of the American Frontier**

The Turner thesis, historiography, and adapta-

tions to the challenges of the environment are considered. Various frontiers from the Atlantic seaboard to the last frontier on the Great Plains are studied. Prerequisites: HTY 131I and HTY 132I or permission. Cr 3.

### **HTY 363 Sickness and Health in America: Historical Perspectives**

The growth of the U.S. health care system on the basis of European models and local needs. Infectious diseases from smallpox to AIDS. Social consequences and contexts for various Americans—native Americans, blacks, and women. Alternative views of health and disease. Cr 3.

### **HTY 364 History of Women in the United States**

A chronological survey of the evolving role of women in the development of the United States from the Colonial Period to the present. Cr 3.

### **HTY 365 History of Black Americans**

An examination of the interaction of black people with American social, political, cultural, and economic institutions. Major topics include the African heritage, components of slavery, abolitionism, segregation, programs of race advancement, and the modern search for identity. Prerequisites: HTY 131I and HTY 132I or permission. Cr 3.

### **HTY 366 History of Religion in America**

A history of religion in American society from the colonial era to the present, examining theology, organization, leaders, critics, and the religious contribution to the American experience. Prerequisites: HTY 131I and HTY 132I or permission. Cr 3.

### **HTY 367 The American Home**

A survey of U.S. domestic architecture, considering the influence of changing tastes, as well as climate and technology, on the buildings in which Americans have lived. Attention will be given to the historical styles as illustrated in the homes of the well-to-do, but attempts also will be made to look carefully at where and how "the people" lived. The approach will include slide-illustrated lectures and on-the-spot observation. Prerequisite: six hours of U.S. history. Cr 3.

### **HTY 368 American Urban History**

A survey of the American city: social, political, intellectual, and cultural components; the changing nature of "community"; the course of urban development; and the emergence of urban life styles. Special attention is focused on the population movement to the city; the development of slums, ghettos, and suburbs; the growth of municipal institutions and services; the relationship of city dwellers and govern-

ment; and the emergence of "Megalopolis."  
Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 369 Viewpoints in American History**

A seminar involving discussions of selected topics in United States history, with emphasis on varying interpretations of trends and events. Students will read and analyze both traditional and more recent views, noting changes in frames of reference, methodology, and general approach. Prerequisite: 12 hours of U.S. history. Cr 3.

### **HTY 372 American Social and Intellectual History I**

An analysis of the evolution of American religious, political, economic, social, and scientific thought from the colonial period to 1865. The course examines major principles, assumptions, and values; the relation of American thought to class structure, ethnic and racial associations, mobility, and immigration; and the relation of American thought to contemporary intellectual patterns in the Western world. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 373 American Social and Intellectual History II**

A continuation of HTY 372 from 1865 to the present. Prerequisite: HTY 132I or permission. Cr 3.

### **HTY 375 CIA: U.S. Foreign Intelligence since Pearl Harbor**

This course traces the rise of the U.S. intelligence empire with case studies of its information gathering and covert action activities, as well as a consideration of the moral questions and political dilemmas, short and long term, posed by these operations. In effect, it is an examination of the underside of recent U.S. foreign relations. Prerequisite: six hours of history or social science or permission. Cr 3.

### **HTY 377E Chinese Thought**

Prior to the modern era, the Chinese interpreted their world through traditional idea systems, the most prominent of which were Confucianism, Taoism, and Buddhism. This course will explore these traditions: their assumptions and values, their varieties and internal tensions, and their relationships to the larger social system. Prerequisite: HTY 171I recommended. Cr 3.

### **HTY 378 Diplomatic History of the United States I**

This course covers the development of key United States foreign policies from the Revolution to 1913-14. Prerequisite: HTY 131I or permission. Cr 3.

### **HTY 379 Diplomatic History of the United States II**

The chief emphasis is placed on the causes and results of World Wars I and II, the nature of the Cold War, and the character of our present commitments. Prerequisite: HTY 132I or permission. Cr 3.

### **HTY 381 Latin America and the United States**

A survey of U.S.-Latin American relations with emphasis on the efforts of the U.S. Government and multi-national corporations to adjust to the growth of nationalism, state capitalism, and socialism in Latin America. Cr 3.

### **HTY 383 The Society and Culture of Latin America**

This seminar seeks to examine, through the use of popular novels and films, the principal characteristics of Latin American culture. Such elements as the role of dictators and revolutionaries, of machismo and imperialism, and of great haciendas and folkloric religions will be considered. Cr 3.

### **HTY 384 Contemporary Africa**

An interdisciplinary seminar on contemporary Africa examining literature and the arts, social change, development and adaptation in African politics, economic development, race relations, and international politics. Cr 3.

### **HTY 385 Africa Through Its Literature**

An examination of how African history has been portrayed through novels. Both historical re-creation novels and books reflective of the societies which produced them are used, with particular emphasis on English-speaking Africa. Prerequisite: HTY 161I or HTY 162I recommended. Cr 3.

### **HTY 386 History of South Africa**

An in-depth examination of one of Africa's most controversial and important countries. Combines a series of illustrated lectures on South Africa's historical background with discussions of contemporary political (domestic and international), social and economic issues. Cr 3.

### **HTY 388 History of Modern China**

After dealing with the nature of Chinese society and institutions as they existed around 1800, the course will take up problems of modernization, imperialism, revolution, warlordism, Japanese aggression, civil war, and the present communist regime. Prerequisite: HTY 172I recommended. Cr 3.

### **HTY 389 History of Modern Japan**

This course will explore what Japan was like when Perry "opened" it in 1854 and will deal



with the rapid social changes which made Japan the outstanding example of modernization among non-Western nations. The problems which this development has created will also be considered. Prerequisite: HTY 172I recommended. Cr 3.

#### **HTY 390 China and Cuba under Communism**

This is a course in comparative history, focusing on developments in China and Cuba since the assumption of power by Communist regimes in 1949 and 1959 respectively. The principal topics dealt with include political events, the organization of power, economic and social development, and relations with the outside world. Cr 3.

#### **HTY 394 Selected Topics in History**

An analysis of a selected controversial historical problem. The topic to be studied and the method of approaching it will be chosen jointly by interested students and the staff. Prerequisite: permission of the instructor. (Offered occasionally.) Cr 3.

#### **HTY 395 Research Project for History Majors**

The conceptualization, research, and writing of a term paper. Course must be taken concurrently with a course numbered between HTY 303 and HTY 394 and offered by the same instructor. Course limited to and required for history majors. Prerequisites: HTY 200 and permission of instructor. Cr 1.

#### **HTY 397 Independent Study Semester**

This is the course designator for students who participate in the History Department's semester abroad exchange program with King Alfred's College in England. Cr 3-15.

#### **HTY 398 Independent Study in History**

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences, and emerging with an intellectually sound, coherent synthesis reflecting a high caliber of performance. Prerequisite: permission of instructor. Cr 1-3.

#### **HTY 400 Senior Seminar**

The capstone to the major and required for the degree, this seminar explores the nature and the craft of history. The topic will vary but will always be a particular theme or set of issues to which the student will be expected, through discussion and writing, to apply the knowledge and skills acquired in previous history courses. Note: The requirement of this seminar for the history major does not apply to students who entered the Department prior to fall 1988. Prerequisites: HTY 395 (at least once) and senior status. Preference to history majors. Cr 3.

Other courses in the College of Arts and Sciences have historical interest. Although they do not count for history credit, the major may wish to take some of them as supplementary electives.

# Mathematics and Statistics

*Chair of the Department:* Joel W. Irish, 115G Bailey, Gorham

*Professors:* Estes, Guay, Gupta, B., Kratzer, Mainville; *Associate Professors:* Chabot, El-Taha, Flagg, Foster, Gupta, S., Irish, MacDonald; *Assistant Professor:* Valdes-Leon

The Department of Mathematics and Statistics offers a four-year program leading to a B.A. in mathematics. In addition to meeting Departmental requirements for a major, all students must also meet the requirements of the school or college involved, and the University Core curriculum requirements.

## Programs and Requirements

### I. Bachelor of Arts in Mathematics

The minimum number of credits (exclusive of the University's Core curriculum) required for a bachelor of arts in mathematics is 45 (27 in foundations and 18 in one of the three concentrations listed below).

#### A. Foundations

As a mathematics major, a student may select one of the three concentrations described below in section B. For each concentration all majors are required to complete successfully the foundations sequence as described in this section. Each student must have an accumulative grade point average of at least 2.0 in major courses before being considered for a baccalaureate degree in mathematics.

Foundations Sequence (Required of all majors in mathematics) (27 cr hrs)

MAT	152D	Calculus A	4 cr
MAT	153	Calculus B	4 cr
MAT	252	Calculus C	4 cr
MAT	290	Foundations of Mathematics	4 cr
MAT	381	Introduction to Probability and Statistics	4 cr
MAT	295	Linear Algebra	3 cr
COS	160	Structured Problem Solving: PASCAL	3 cr
COS	170	Structured Programming Laboratory	1 cr

#### B. Concentrations

Each mathematics major should choose one of the following concentrations. (18 credit hours)

##### 1. Pure Mathematics Concentration

Mathematics majors intending to pursue graduate work in mathematics should consider this concentration, and they are urged to take Real Analysis I and II, Abstract Algebra, Topology, and one year of French or German. Those intending to teach at the secondary level should choose this concentration.

a. Successful completion of four of the courses listed below:

MAT	352	Real Analysis I
MAT	355	Complex Analysis
MAT	395	Abstract Algebra
MAT	490	Topology
MAT	370, 371, or 372	Non-Euclidean, College, or Projective Geometry

b. Successful completion of at least two additional mathematics courses with second digit 5 or greater.

##### 2. Applied Mathematics/Operations Research Concentration

Those majors intending to enter industry or other applied fields should seriously consider this concentration. Majors who plan to prepare for the actuarial profession should be certain to include in their programs Statistical Inference, Numerical Analysis, and the appropriate courses in the School of Business, Economics and Management. Majors intending to pursue graduate work in applied mathematics are urged to take Real Analysis and Abstract Algebra.

- a. Successful completion of four of the courses listed below:
 

MAT	350	Differential Equations
MAT	354	Topics in Advanced Calculus
MAT	364	Numerical Analysis
MAT	366	Deterministic Models in Operations Research
MAT	460	Mathematical Modeling
MAT	461	Stochastic Models in Operations Research
MAT	492	Graph Theory and Combinatorics
- b. Successful completion of at least two additional mathematics courses with second digit 5 or greater.

### 3. Statistics Concentration

This concentration is aimed at preparing the undergraduate to pursue a career as a statistician in government jobs or industrial jobs or to pursue a higher degree in statistics or allied fields. Majors intending to pursue graduate work in statistics are urged to take Real Analysis and Abstract Algebra.

- a. Successful completion of MAT 382 and three of the courses listed below:
 

MAT	384	Non-Parametric Methods
MAT	386	Sampling Techniques
MAT	388	Statistical Quality Control
MAT	481	Stochastic Processes
MAT	482	Introduction to Time Series Analysis
MAT	484	Design and Analysis of Experiments
- b. Successful completion of at least two additional mathematics courses with second digit 5 or greater.

## II. Certificate Program in Applied Statistics

The Department of Mathematics and Statistics offers a certificate program in applied statistics, designed for people in area businesses, industry, government, and education, as well as offering to the Department's own majors an opportunity for further recognition of their skills. It is helpful for students who want to pursue a master's program in statistics but who need first to fill in some advanced undergraduate work.

The requirements for the certificate are successful completion of:

- |     |                |                                    |
|-----|----------------|------------------------------------|
| MAT | 380 or MAT 381 | and five of the following courses: |
| MAT | 384            | Non-Parametric Methods             |
| MAT | 386            | Sampling                           |
| MAT | 388            | Statistical Quality Control        |
| MAT | 461            | Stochastic Models in O.R.          |
| MAT | 482            | Introduction to Time Series        |
| MAT | 484            | Design and Analysis of Experiments |
| MAT | 498            | Topics                             |

Students must contact the Department chair about application to the program. The courses are offered during the late afternoon to make them more accessible to working people.

## III. Minor in Mathematics

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 22.

An accumulative grade point average of at least 2.0 in these courses must be maintained, and successful completion of the following courses: MAT 152D; MAT 153; MAT 290; COS 160; COS 170; plus two additional MAT courses with second digit 5 or greater.

### Recommended Courses for Non-majors

Students who desire an introductory course to satisfy the Quantitative Decision Making portion of the Basic Competence requirement of the Core curriculum should consider MAT 105D. For students majoring in other disciplines, but wishing to develop competency in using mathematics, the following courses are recommended. Individual course descriptions should be consulted to determine prerequisites: MAT 109D; MAT 110D (or MAT 152D and MAT 153 for greater depth in calculus); or MAT 120D (or MAT 211 and MAT 212 for greater depth in probability and statistics).

It is expected that students will possess and be able to operate a basic scientific calculator if they enroll in mathematics courses.

### **MAC 100 Computers and Society**

A general course designed for students not majoring in mathematics or computer science. Topics will include: history of data processing technology; study of the tools and methods; the application of computers and their economic and social implications; and an introduction to a programming language. Cr 3.

### **MAC 234 Computer Programming for Elementary Teachers**

This course introduces the elementary education major to programming techniques and applications using the BASIC language. No programming skills will be presumed. Prerequisite: MAT131D. Cr 3.

### **MAC 249 Computer Programming: LOGO**

An introduction to the LOGO language for microcomputers. Emphasis will be given to writing computer programs for use in elementary school classrooms beginning with turtle graphics. Cr 3.

### **MAT 010 Elementary Algebra**

The first course of a two-course sequence designed for students who are deficient in high school algebra. Topics covered include: basic operations with integers and rational numbers; equations with variables; algebra word problems; operations with polynomials and algebraic fractions (including factoring), and operations with exponential and radical expressions. Prerequisite: MAT 009 or its equivalent. Associate degree credit only. Cr 3.

### **MAT 011B Intermediate Algebra**

A continuation of MAT 010. Topics include: graphing linear equations in two variables; quadratic equations; graphs of functions and relations; conic sections; solutions to systems of equations; solutions for inequalities; and exponential and logarithmic functions. Prerequisite: one year of high school algebra or MAT 010. Associate degree credit only. Cr 3.

### **MAT 100 College Algebra**

The real number system, algebraic operations, sets, equations, inequalities and their graphs, functions and relations, quadratic functions, exponential and logarithmic functions, theory of equations, systems of equations, permutations, combinations, probability, sequences and series, matrices and determinants, and mathematical induction. Prerequisite: successful completion of the University's Mathematics Proficiency requirement. Cr 3.

### **MAT 105D Mathematics for Quantitative Decision Making**

This course is designed to give students not majoring in mathematics or related fields an understanding of some key ideas in quantitative decision making. The material is chosen to develop awareness of the utility of mathematics in life and to instill an appreciation of the scope and nature of its decision-making potential. The computer packaged programs may be used as tools to assist the students in performing calculations necessary for the decision-making process. Prerequisite: successful completion of the University's Mathematics Proficiency requirement. Cr 3.

### **MAT 109D Linear Systems**

An introduction to vectors, matrices, and linear systems of algebraic equations and linear programming. Prerequisite: successful completion of the University's Mathematics Proficiency requirement. Cr 3.

### **MAT 110D Business Calculus**

A unified treatment of the elementary functions of analysis; their analytical properties including derivatives, integrals, and series; introduction to multivariate calculus; applications. Prerequisites: successful completion of the University's Mathematics Proficiency requirement and a passing grade on an algebra competency test which will be administered at the first class meeting. Cr 3.

### **MAT 120D Introduction to Statistics**

An introductory course including basic probability, random variables, and their distributions; estimation and hypothesis testing; regression and correlation. Prerequisite: successful completion of the University's Mathematics Proficiency requirement. Cr 3.

### **MAT 131D Number Systems for Elementary Teachers**

This is the first course in a three-course sequence in mathematics recommended by the Committee on the Undergraduate Mathematics Program of the Mathematical Association of America for prospective primary and elementary teachers. Major emphasis is placed on an intuitive approach to the real number system and its subsystems. Prerequisite: successful completion of the University's Mathematics Proficiency requirement. Cr 3.

### **MAT 140D Pre-Calculus Mathematics**

A brief review of elementary algebra followed by a study of the algebraic, exponential, logarithmic, and trigonometric functions. Prerequisites: successful completion of the University's Mathematics Proficiency requirement and a passing grade on an algebra competency test which will be administered at the first class meeting. Cr 3.

**MAT 152D Calculus A**

This is the first of a sequence of three basic calculus courses covering functions of one or more variables, graphs, limits, derivatives, integrals, optimization, infinite series, vectors, and various applications. Calculus A provides an introduction to the differential and integral calculus of functions of one variable. Prerequisite: two years of high school algebra plus geometry and trigonometry, or MAT 140D. Cr 4.

**MAT 153 Calculus B**

A continuation of Calculus A. Calculus B will usually include infinite series and an introduction to vectors. Prerequisite: MAT 152D. Cr 4.

**MAT 211 Probability**

Common probability laws and distributions of discrete and continuous random variables; business applications in probability. Prerequisite: MAT 110D or MAT 152D. Cr 3.

**MAT 212 Statistics**

Sampling distributions; estimation; hypothesis testing; introduction to regression analysis and analysis of variance. Applications primarily in business and economics. Prerequisite: MAT 211. Cr 3.

**MAT 220 Statistics for the Biological Sciences**

This course treats basic statistical methods as applied to the biological sciences. The topics emphasized are descriptive statistics, discrete and continuous distributions, statistical estimation, hypothesis testing procedures, chi-square methods (goodness of fit and two-way tables), analysis of variance, and simple and multiple regression. Students will use at least one computer-based statistical package. Prerequisite: MAT 152D. Cr 4.

**MAT 231 Algebra for Elementary Teachers**

The second course in a three-course sequence in mathematics recommended by the Committee on the Undergraduate Mathematics Program of the Mathematical Association of America for prospective primary and elementary teachers. Emphasis is upon the properties of operations in several different algebraic systems. Equations are studied in finite systems as well as in conventional algebra. Prerequisite: MAT 131D. Cr 3.

**MAT 232 Geometry for Elementary Teachers**

The third course in a three-course sequence in mathematics recommended by the Committee on the Undergraduate Mathematics Program of the Mathematical Association of America for prospective primary and elementary teachers. Emphasis is upon constructions, congruence, parallelism, and similarity. Direct and indirect

methods of proof are studied, but the main approach is intuitive. Prerequisite: MAT 131D. Cr 3.

**MAT 233 Probability for Elementary Teachers**

An introductory course in probability designed for the elementary and junior high teacher. The course content includes empirical probability through conditional probability, random variables and their distributions, including binomial and normal distributions. Prerequisite: MAT 131D. Cr 3.

**MAT 235 History of Mathematics for Elementary Teachers**

A history of certain topics in number theory, geometry, and elementary algebra. Prerequisite: MAT 131D. Cr 3.

**MAT 252 Calculus C**

Multivariate calculus and vector calculus. Prerequisite: MAT 153. Cr 4.

**MAT 290 Foundations of Mathematics**

Selected topics in set theory, symbolic logic, and methods of proofs needed in more advanced mathematics courses. Prerequisite: consent of the Department. Cr 4.

**MAT 292 Theory of Numbers**

Basic course in number theory, including such topics as divisibility properties of integers, prime numbers, congruences, multiplicative number theoretic functions, and continued fractions. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 295 Linear Algebra**

An introduction to the theory of vector spaces and linear transformations. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 350 Differential Equations**

A study of various methods for solving ordinary differential equations, including series methods and Laplace transforms. The course also introduces systems of linear differential equations, Fourier series, and boundary value problems. Prerequisite: MAT 252. Cr 4.

**MAT 352 Real Analysis I**

Limits, continuity, differentiation and integration of functions of one or more real variables, infinite series, uniform convergence, and other selected topics. Prerequisites: MAT 252, and COS 280 or MAT 290. Cr 3.

**MAT 353 Real Analysis II**

A continuation of Real Analysis I. Prerequisite: MAT 352. Cr 3.

**MAT 354 Topics in Advanced Calculus**

Selected topics on multivariate functions, vectors, transformations, line integrals, and surface integrals. Prerequisites: MAT 252, and COS 280 or MAT 290. Cr 3.

**MAT 355 Complex Analysis**

A study of the complex number system and its applications: differentiation and integration of complex valued functions, the Cauchy integral theorem and formula, Taylor and Laurent series, singularities and residues, conformal mappings. Prerequisite: MAT 252, and COS 280 or MAT 290. Cr 3.

**MAT 364 Numerical Analysis**

A study of the theory and application of computational algorithms for interpolation, equation solving, matrix methods, integration; error analysis. Prerequisites: MAT 252, COS 160, and permission of instructor. Cr 3.

**MAT 366 Deterministic Models in Operations Research**

Formulation and analysis of mathematical models for the optimal solution of decision making problems under certainty. Linear programming; the simplex method, duality and sensitivity analysis. Network analysis: shortest paths, minimal spanning tree, network flows. Introduction to non-linear optimization: convex programming, Kuhn-Tucker conditions. Applications to pricing, allocation, production planning, transportation and scheduling problems. Prerequisites: MAT 153 and MAT 295. Cr 3.

**MAT 370 Non-Euclidean Geometry**

A development of one or more of the non-Euclidean geometries. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 371 College Geometry**

Selected topics from Euclidean geometry. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 372 Projective Geometry**

Synthetic and analytic projective geometry, including finite projective planes. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 380 Probability and Statistics**

This course explores concepts and techniques of collecting and analyzing statistical data, examines some discrete and continuous probability models, and introduces statistical inference, specifically, hypothesis testing and confidence interval construction. Not for mathematics major credit. Prerequisite: MAT 153 or MAT 110D. Cr 3.

**MAT 381 Introduction to Probability and Statistics**

Basic concepts of probability theory with an

introduction to its statistical applications. Particular topics will include discrete and continuous distributions, moment generating functions, characteristic functions, limit theorems, sampling distributions, basic elements of estimation and hypothesis testing and simple linear regression. Prerequisite: MAT 153. Cr 4.

**MAT 382 Statistical Inference**

This course will survey various statistical methods and applications, such as order statistics, MVU estimation including Rao-Blackwell Theorem, completeness and Fisher's information, method of least squares, method of maximum likelihood, confidence intervals, hypothesis testing and uniformly more powerful tests, linear regression and correlation. Prerequisite: MAT 380 or MAT 381. Cr 3.

**MAT 384 Non-Parametric Methods**

Tests of goodness of fit, Pearson's Chi-square, test for multinomial populations, contingency tables, sign tests based on ranks, media test, Mann-Whitney Test, Wilcoxon Test, Spearman's Rank Correlation Coefficient, order statistics. Prerequisite: MAT 380 or MAT 381. Cr 3.

**MAT 386 Sampling Techniques**

Sample random sampling, stratified random sampling, sampling for proportions, estimation of sample size, systematic sampling, multistage sampling, regression and ratio estimates, non-sampling error. Prerequisite: MAT 380 or MAT 381. Cr 3.

**MAT 388 Statistical Quality Control**

Some aspects of quality specifications and tolerances, control charts for attributes and variables, certain inspection plans, plans by attributes and by variables, simple, double, and sequential sampling plans. Prerequisite: MAT 380 or MAT 381. Cr 3.

**MAT 390 History of Mathematics**

The development of mathematics from ancient to modern times. Prerequisites: MAT 152D and COS 280 or MAT 290. Cr 3.

**MAT 395 Abstract Algebra**

Algebraic structures, such as groups, rings, integral domains, and fields. Prerequisite: COS 280 or MAT 290. Cr 3.

**MAT 431 Selected Topics in Mathematics for Elementary Teachers**

A course designed to provide enrichment topics for the elementary teacher. The course will include such topics as number theory, motion geometry, topology, projective geometry, graphs, and sets and logic. Prerequisites: junior elementary education major and permission of the instructor. Cr 3.

### **MAT 432 Selected Topics in Mathematics for Elementary Teachers**

A course designed to provide enrichment topics for the elementary teacher. The course will include such topics as awareness geometry, transformational geometry, analysis of shapes, number theory, and measurement. Prerequisites: junior elementary education major and permission of the instructor. Cr 3.

### **MAT 460 Mathematical Modeling**

An introduction to the process of formulating problems in mathematical terms, solving the resulting mathematical model and interpreting the results and evaluating the solutions. Examples will be chosen from the behavioral, biological, and physical sciences. Prerequisites: junior or senior standing, some elementary calculus including differentiation and integration, elementary probability, and some computer programming experience. Cr 3.

### **MAT 461 Stochastic Models in Operations Research**

This course applies probabilistic analysis to such nondeterministic models as queueing models, inventory control models, and reliability models. Additional topics include simulation, elements of dynamic programming, and Markov decision analysis. Prerequisite: MAT 380 or MAT 381, or permission of instructor. Cr 3.

### **MAT 481 Stochastic Processes**

Introduction to the basic stochastic processes, simple random walk, discrete Markov chains; transition matrices, classification of states, long run behavior, the Poisson processes and related distributions, limiting behavior of birth and death processes, finite state continuous time Markov chains, elements of renewal theory. Prerequisites: MAT 381 and MAT 295 or permission of instructor. Cr 3.

### **MAT 482 Introduction to Time Series Analysis**

The objectives and simple descriptive tech-

niques of time series analysis are presented using probability models, estimation in the time domain, forecasting, Box-Jenkins methodology, and spectral analysis. Prerequisite: MAT 380 or MAT 381. Cr 3.

### **MAT 484 Design and Analysis of Experiments**

This course is intended to acquaint students with such standard designs as one-way, two-way, and higher-way layouts, Latin-square and orthogonal Latin-square designs, BIB designs, Youden square designs, random effects and mixed effect models, nested designs, and split-plot designs. Prerequisites: MAT 295 and either MAT 380 or MAT 381, or permission of instructor. Cr 3.

### **MAT 490 Topology**

An introduction to fundamental concepts in topology, including topological spaces, mappings, convergence, separation and countability, compactness, connectedness, metrization, and other selected topics. Prerequisites: MAT 252 and COS 280 or MAT 290. Cr 3.

### **MAT 492 Graph Theory and Combinatorics**

This course is designed to acquaint students with some fundamental concepts and results of graph theory and combinatorial mathematics. Applications will be made to the behavioral, managerial, computer and social sciences. Prerequisite: COS 280 or MAT 290. Cr 3.

### **MAT 497 Independent Study in Mathematics**

An opportunity for juniors and seniors who have demonstrated critical and analytical capability to pursue a project independently, charting a course and exploring an area of interest within their major field. Prerequisites: junior or senior standing, permission of the instructor, and permission of the Department chair. Cr 1-3.

### **MAT 498 Topics**

Selected topics in advanced mathematics. Prerequisite: permission of instructor. Cr 3.

## *Mathematics Education*

### **MEO 200-201, 300-301, 400-401 Cooperative Education in Mathematics**

The student has the opportunity to relate academic knowledge to practical experience in a job situation. The University makes arrangements with certain institutions, businesses, and industries to employ qualified students for specific jobs for a set time period. The student's work is ordinarily in a related field, and the work experiences increase in difficulty and responsibility as the student progresses through the sequence of courses. The experiences are approved on a case-by-case basis by the department. Eval-

uation is done with the employer and a faculty supervisor. Open to qualified students, subject to availability of suitable jobs. Cr 1-5.

### **MME 345 Teaching Mathematics in the Secondary School**

Critical study of programs and techniques for teaching and learning mathematics in grades 7-12 for the slow, average, and advanced pupil, with the use of instructional media. Prerequisite: EDU 100, EDU 200, HRD 333J, and 30 credit hours towards a mathematics major, or permission of the instructor. Cr 3.

# Music

*Chair of the Department:* John Boden, Corthell Hall, Gorham  
*Professors:* Atterbury, Bowder, Cole, Martin, Russell; *Associate Professors:* Boden, Fithian, Freeman, Kargul, Parchman, Reeves; *Assistant Professors:* Golan, Harris

*Applied Music Faculty Piano:* Thomas Bucci, Ronald Cole, Robert Glover, Laura Kargul, Janet Reeves; *Organ:* Ray Cornils; *Voice:* Ellen Chickering, Bruce Fithian, Linda Freeman, Rhee Michelle; *Violin:* Lawrence Golan, Graybert Beacham; *Viola:* Lauri Kennedy, Graybert Beacham; *Cello:* James Kennedy, William Rounds; *Bass:* Henry Peyrebrune; *Flute:* Catherine Payne; *Oboe:* Neil Boyer; *Clarinet:* Thomas Parchman; *Saxophone:* Bill Street; *Bassoon:* Ardith Freeman; *Trumpet:* John Schnell; *French Horn:* John Boden; *Trombone:* Mark Manduca; *Euphonium:* Donald Rankin; *Tuba:* Donald Rankin; *Percussion:* Nancy Smith; *Harp:* Jara Goodrich; *Classical Guitar:* Keith Crook, Michael Katz; *Jazz Guitar:* Tony Gaboury; *Jazz Bass:* Bronislaw Suchanek; *Jazz Drums:* Les Harris; *Jazz Piano:* Janet Reeves, Jeff Auger

The Department of Music offers a number of music ensembles open to all students, a number of courses primarily for non-majors, and concentrated study in the areas of music history, music theory, performance, and music education. Students majoring in music may earn a baccalaureate degree in education (bachelor of music in music education), in arts and sciences (bachelor of arts in music), or in music (bachelor of music in performance). In addition, a minor in music is offered for students majoring in elementary education, and a minor in music is offered for students in the College of Arts and Sciences. Students who wish to pursue a self-designed major in music should consult the chair of the Music Department.

## *Music Fees*

An applied music fee of \$120.00 per semester for hour lessons, or \$60.00 per semester for half-hour lessons will be charged all music majors in addition to the University tuition fee. Applied lessons for music majors, beyond those required for the degree, will be subject to a fee of \$180.00 for half-hour lessons and \$360.00 for hour lessons in addition to the University tuition fee.

For a music minor the University will subsidize the applied music fee, to a maximum of eight credit hours, if the student demonstrates adequate proficiency. The student will pay \$120.00 per semester for hour lessons and \$60.00 per semester for half-hour lessons in addition to the University tuition fee.

Students other than music majors and minors will be accommodated for applied music lessons if a teacher's time is available, and will be subject to a fee of \$180.00 for half-hour lessons or \$360.00 for hour lessons in addition to the University tuition fee.

Students registering for applied music must report to the chair of the Department for assignment to an applied music teacher and scheduling of lessons. All fees must be paid before lessons commence.

A chamber music fee of \$30.00 per section of chamber music will be charged to each person participating in coached chamber music.

## *Admission Requirements*

Admission to degree programs in music will be based on the following criteria: a) the applicant's high school record, including recommendations, and SAT achievement scores; b) an audition, which includes performance on the applicant's major instrument, and tests in aural comprehension, rhythmic recitation, and sight singing which are administered to each applicant individually by a member of the staff; and c) a written standardized musical achievement test.

Students who desire to apply for advanced standing in music curricula should apply to the chair of the Department for a special examination.

## *Department Standards*

Each student enrolled in the music education degree program will play a jury exam on his or her major instrument at the end of each academic year.



Each student enrolled in the performance degree program will play a jury exam on his or her major instrument at the end of each semester. The jury panel will determine a level of performance and submit a written evaluation which will be included in the student's file. Students are required to perform at the appropriate level of competence as established by the music faculty.

Each student must earn grades of C- or better in all courses which count toward fulfillment of major requirements. D and F grades do not fulfill prerequisite requirements. However, an exception will be made for Basic Conducting. In this course a grade of D will allow the student to progress to Instrumental or Choral Conducting. If a grade of C- or better is earned in this next semester, the preceding semester need not be repeated. If a grade of D or F is earned in this next semester, both semesters must be satisfactorily repeated in proper sequence. No course may be repeated more than once. If a student fails in the second attempt to pass a course with a grade of C- or better, he or she will not be allowed to continue as a music major or minor.

Each student must attain a 2.25 minimum grade point average before being admitted to junior or senior level music major courses. Students who fall below academic or applied music standards will be placed on probation and will be suspended if they do not meet these standards by the end of the following semester.

### *Music Core Requirements*

Each student enrolled as a major in a music degree program will take the following courses during his or her first and second years:

MUS 120G, 121G, 220G, 221G	History of Music
MUS 130F, 131, 230, 231	Music Theory
MUS 132, 133, 232, 233	Sight Singing and Ear Training

### *Concert Attendance Policy*

All music majors and minors are required to attend a number of concerts and recitals each semester in order to maintain good standing in the Department. Failure to meet the requirements of this policy can result in probation and suspension. The policy is administered through MUS 442 Recital Class.

### *Bachelor of Music in Music Education (MUE)*

The degree of bachelor of music in music education prepares students for careers in music teaching. Students completing this course of study receive public school music certification for kindergarten through high school. Since a person must first be a good musician in order to be a good music educator, the program includes substantial work in music theory, ear training, music history, applied music, ensembles, and conducting, in addition to music education methods courses and field experiences. Students elect (1) instrumental concentration, (2) vocal concentration, or (3) a general program which includes major portions of both the instrumental and vocal concentrations.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major, instrumental concentration: 99; vocal concentration: 98; or general concentration: 101.

All students are reminded that, in addition to meeting Departmental requirements for a major leading to a baccalaureate degree, they must also meet the University's Core curriculum requirements.

All music education majors are required to take the following 20 hours of professional education courses: MUE 100 Introduction to Music Education; MUE 220 Studies in Historical Foundations and Learning Theories of Education; MUE 400 Student Teaching; HRD 333J Human Growth and Development; and MUE 422 Music for Exceptional Children.

Additionally, all music education majors will meet the following requirements:

1. Fulfillment of minimum requirements in both voice and piano, regardless of major instrument.
2. Successful completion of 3 credit hours in Chorale and 3 credit hours in the appropriate major instrumental ensemble (Concert Band or

## **Programs and Requirements**

Chamber Orchestra). Students who do not meet the audition requirements of either Concert Band or Chamber Orchestra will be assigned to Percussion Ensemble. Pianists will satisfy 1 credit of this requirement through accompaniment. Guitarists may take up to 1 credit of this requirement in chamber music. All transfer students must complete a minimum of 1 credit of the appropriate major ensemble at USM.

3. Successful completion of seven semesters of major applied music lessons.
4. Successful completion of recital class in each semester when registered for major applied lessons. The requirement is fulfilled after 7 successfully completed semesters, even if the student continues to study applied music.
5. Presentation of a solo recital in the senior year (or junior year with special permission). The recital contains 30 minutes of music including at least 25 minutes of solo performance; the remainder may be ensemble performance. Normally the program will be shared with another MUE senior or MUP junior recital. A longer (full-length) program requires the special approval of the faculty. A student may not perform the required recital during the semester of student teaching.

*Piano Proficiency Requirement* Students must enroll in applied piano each semester until the requirement is met. The proficiency exam must be taken at the end of four semesters of study. If it is not passed, further study will be at the student's own expense. The piano proficiency must be passed by the end of the third week of the semester before student teaching.

New students who feel prepared to meet the requirement may schedule an exam during the orientation period. Thereafter, exams will be offered at the end of each semester and may be taken whenever the student and the applied music teacher feel the student is qualified.

Requirements for the exam are as follows:

- a) Play all major and minor scales (two octaves, hands together in eighth notes,  $mm \downarrow = 72$ );
- b) Play a prepared piece, or pieces, of the student's choice of at least the difficulty of a sonatina by Clementi or Kuhlau (minimum 5 minutes);
- c) Play *America*, *America the Beautiful* and *The Star Spangled Banner*;
- d) Offer a representative list of music studied on piano;
- e) Prepare in 24 hours an assigned folk melody with chordal accompaniment and a melody with notated piano accompaniment as found in a standard public school music text;
- f) Sight read a folk melody with chord symbols and a melody with notated piano accompaniment as found in a standard public school music text.

*Vocal Proficiency Requirement* All students in the music education program must complete at least one year of vocal study before student teaching. They must also pass the following requirements in a vocal proficiency examination before student teaching:

1. Demonstrate and explain the principles of singing, including posture, breathing, tone production, and articulation.
2. Submit a list of 12 songs, including songs in English and at least one foreign language.
3. Perform from memory six songs, at least one of which is in a foreign language.

If the proficiency is not met after four credits of study, the student will continue to study for no credit at his or her own expense until this standard is met.

*Student Teaching* Student teaching is the culmination of a comprehensive, preprofessional, required sequence of activities that includes the following:

Freshman year: all first-year music education majors enroll in MUE 100 Introduction to Music Education.

Sophomore year: the equivalent of two days of assisting classroom teachers in music, serving in a capacity similar to teacher aides.

Junior year: elementary and secondary methods courses wherein students observe, plan, and teach using actual classroom situations.

Senior year: student teaching that encompasses both elementary and secondary as well as instrumental and vocal areas.

### *Professional Education: Music Education Courses*

Courses marked with an asterisk (\*) are offered on a rotating basis. Students should work closely with their advisors in planning their courses of study in the music education program.

All music education majors must complete the following courses:

MUE	221	Brass Class
MUE	222	Percussion Class
MUE	224	Woodwinds I
MUE	320	String Class-Violin
MUE	322	Elementary General Music Methods

For instrumental concentration, these additional courses must be completed:

*MUE	225	Woodwinds II
*MUE	321	String Class-Viola, Cello and Bass
*MUE	324	Instrumental Methods
*MUE	420	Marching Band Techniques

For vocal concentration, this additional course must be completed:

*MUE	323	Secondary Choral Methods
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For general concentration, these additional courses must be completed:

*MUE	225	Woodwinds II
*MUE	324	Instrumental Methods
*MUE	323	Secondary Choral Methods

### *Elective Concentration in Jazz Education (MUE)*

Students seeking an elective concentration in jazz education must fulfill all the requirements for either the instrumental concentration, the vocal concentration, or the general concentration, along with the following additional courses:

*MUS	374	Jazz Pedagogy (2 credits)
MUS	407	Jazz Ensemble (1 credit)
*MUS	380	Jazz Improvisation I (3 credits)
and 3 credits in any of the following:		
*MUS	206	Jazz History (3 credits)
*MUS	381	Jazz Improvisation II (3 credits)
*MUS	337	Jazz Arranging (3 credits)
MUP	201	Applied Music: Jazz Bass, Jazz Piano, Jazz Drums, or Jazz Guitar (3 semesters)

### *Musicianship: Music Courses*

Courses marked with an asterisk (\*) are offered on a rotating basis. Students should work closely with their advisors in planning their courses of study in the music education program.

All music education majors must take the following courses:

Music Core Requirements, 28 credits

MUP	202F	Applied Music Major, 14 credits
MUP	201F	Applied Music Minor, 5 credits
MUS	244	Basic Conducting
MUS	420	Orchestration
MUS	442	Recital Class (seven semesters)
MUS	401F	University Chorale (seven semesters)
MUS	402F	Concert Band (seven semesters)

or

MUS	400F	Orchestra (seven semesters)
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The following courses apply to each specialized music education curriculum.  
Instrumental concentration:

MUP	201F	Voice Lessons (2 semesters)
*MUS	344	Instrumental Conducting
*MUS	240, 340	Instrumental Conducting Lab

Vocal concentration:

MUP	201F	Voice Lessons (not additionally required of voice majors) (2 semesters)
*MUS	255	Guitar

*MUS	345	Choral Conducting
*MUS	241, 341	Choral Conducting Lab
*MUE	226	Vocal Pedagogy
MUS	404	Opera Workshop
THE	290	Oral Interpretation of Literature (not required, but strongly recommended)
General concentration:		
MUP	201F	Voice Lessons (not additionally required of voice majors) (2 semesters)
*MUS	255	Guitar
*MUS	344, 340	Instrumental Conducting & Lab
or		
*MUS	345, 341	Choral Conducting & Lab
MUS	404	Opera Workshop

### *Bachelor of Arts in Music (MUS)*

This degree program is designed to provide the opportunity for a scholarly study of music to meet the needs of those who wish to obtain a liberal education with an emphasis on music and those who plan to do graduate work in music. The program aims to instill a thorough understanding of music and its relationship to contemporary society. The study of music history and theory is central in this curriculum. Sufficient flexibility is built into the program to allow the individual student to establish areas of emphasis both in music and in the arts and sciences.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 97.

Courses marked with an asterisk (\*) are offered on a rotating basis. Students should work closely with their advisors in planning their courses of study in this degree program.

#### Music Core Requirements, 28 credits

*MUS	320	Seminar in Music History
*MUS	330, 331	Form and Analysis I, II
*MUS	332	Counterpoint

Applied Music (4 credits)

Recital Class (8 semesters, no credit)

Performance Ensembles (4 credits) All transfer students must complete a minimum of 1 credit of the appropriate major ensemble at USM.

Music Electives (9 credits)

Electives including language proficiency, but not music electives (40 credits)

Language proficiency means completion of a second year of a language. This may be bypassed by examination for no academic credit.

The University will subsidize up to a total of 16 credit hours of applied music lessons for B.A. music students.

### *Bachelor of Music in Performance (MUP)*

This degree program is designed for those who wish to prepare for a career in music performance and/or applied music teaching, and those who plan to do graduate work in applied music. The program aims to instill a thorough understanding of music and its relationship to contemporary society. Private lessons; solo, chamber and large ensemble performance; and the study of literature and pedagogy of the major instrument are emphasized. Basic understanding of the standards and opportunities for professional performance leads the student to realistic expectations for a career as a performer or teacher.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 96.

Courses marked with an asterisk (\*) are offered on a rotating basis. Students should work closely with their advisor in planning their course of study in this degree program.

#### Music Core Requirements, 28 credits

MUS	244	Basic Conducting
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MUS	321	Literature of the Major Instrument
*MUS	330, 331	Form and Analysis I, II
*MUS	332	Counterpoint
MUS	442	Recital Class (eight semesters)
*MUS	356	Diction for Singers (voice majors only)
MUP	203	Applied Music, Major Instrument (eight semesters)
MUS	372	Pedagogy of the Major Instrument
		Music Electives (9 credits)
		Performance Ensembles (6 credits)
		Electives in any college (15 credits)

Diction for Singers (MUS 356) is required of voice majors only and may be taken in lieu of three credits of music electives. Voice majors must meet a minimum proficiency in two foreign languages either by exam or through completion of the second semester of the basic course in the Department of Foreign Languages and Classics.

Performance majors must have a minimum of 4 credit hours in the appropriate major ensemble and 2 credit hours in chamber music. Piano majors must complete 2 credit hours in chamber music and the remaining 4 credit hours in chamber music, accompanying, or playing keyboard in a conducted ensemble. Organ majors must complete 2 credit hours in University Chorale, 1 credit hour in accompanying or playing keyboard in a conducted ensemble, 1 credit hour in chamber music (one-half of which must be fulfilled by playing continuo), and 2 credit hours in organ improvisation. Guitar majors must complete 6 credit hours in chamber music or playing guitar in a conducted ensemble. Jazz concentration majors must complete 4 credit hours in jazz ensembles (MUS 407 Jazz Ensemble or MUS 406 Chamber Music) and 2 credit hours in major ensembles. All transfer students must complete a minimum of 1 credit of the appropriate major ensemble at USM.

All performance majors are required to pass a piano proficiency examination or to complete successfully two years of piano as a minor instrument. The content of the exam is appropriate to the student's major. In addition, performance majors must complete satisfactorily a short recital in the junior year and a full recital in the senior year. The junior recital must meet the same standards as the MUE senior recital. The senior recital, 50 minutes of music, must include at least 40 minutes of solo performance. All recitals must show a range of performance pieces demonstrating a variety of historical styles. All performance majors, except keyboard majors, are required to pass a piano proficiency examination or to complete successfully two years of piano as a minor instrument.

#### *Bachelor of Music in Performance–Jazz Studies Concentration (MUP)*

This degree concentration is designed as foundation studies for those who wish to prepare for careers in jazz or commercial music performance and/or jazz instruction and those who plan to pursue graduate work in jazz studies. This program aims to instill a thorough understanding of this unique American art form and its relationship to contemporary society. Applied music, jazz improvisation, jazz arranging, jazz history, and jazz ensembles are emphasized. A basic understanding of the standards and performance opportunities for professional performance leads the student to realistic expectations for a career as a performer or teacher.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 95.

Courses marked with an asterisk (\*) are offered on a rotating basis. Students should work closely with their advisor in planning their course of study in this concentration.

Music Core Requirements, 28 credits

*MUS	206	Jazz History
*MUS	380, 381	Jazz Improvisation I, II
MUS	330 or 331	Form and Analysis I or Form and Analysis II
*MUS	337	Jazz Arranging
*MUS	374	Jazz Pedagogy
MUP	201, 202,	Applied Music, Major Instrument
	203	(eight semesters)

Jazz Ensembles 4 credits in any of the following:

MUS 407 Jazz Ensemble

Major Ensemble (2 credits)

Music Electives (6 credits)

Electives in any college (15 credits)

A student is expected to be enrolled in the appropriate ensemble whenever registered as a full-time student.

All students enrolled in the jazz concentration are required to pass a piano proficiency examination or to complete successfully two years of jazz piano as a minor instrument.

Students in the jazz concentration must complete satisfactorily a full recital in the senior year which includes both traditional and jazz repertoire. The recital contains 50 minutes of music, including 25 minutes of jazz repertoire and 25 minutes of traditional repertoire. (Exceptions to the traditional portion of the recital requirement for rhythm section instruments may be granted by petitioning the faculty.) The jazz repertoire shall demonstrate the student's skills at improvisation and composition or arranging. Jazz students must consult with the director of jazz studies prior to choosing repertoire for the jazz portion of the recital and must perform this material at a recital hearing at least one month prior to the recital date. Jazz students will be expected to achieve the same jury levels and recital requirements on the traditional applied instrument as are required of music education majors.

Students in the jazz concentration, with the exception of rhythm section instruments (guitar, piano, drum set, or bass), must take 24 credit hours of applied music in the traditional area of study. Jazz students whose major instrument is a rhythm section instrument should divide their applied credits equally between traditional applied studies and applied credits in jazz guitar, jazz piano, jazz drum set, or jazz bass, under the guidance of their advisor.

#### *Minor in Music (Bachelor of Arts)*

This minor program is designed to provide an opportunity for candidates for the degree of bachelor of arts who demonstrate interest and ability to continue music studies at the undergraduate level.

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 20.

The minor consists of elective courses in music and ensembles. However, MUS 100G, MUS 110F, and all MUE courses are not acceptable for the minor.

Applied music fees, to a maximum of eight credit hours, will be subsidized by the University only when the student demonstrates adequate proficiency.

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#### *Courses Primarily for Non-Majors*

##### **MUP 101F Applied Music**

An opportunity to continue at the college level the private study of piano, voice, organ, guitar, or any orchestra or band instrument to fulfill one credit of Core requirements in a performance-centered art. One half-hour lesson per week for twelve weeks. Restricted to non-majors and certain music students. May be repeated for credit. Special fee assessed. Cr 1.

##### **MUP 102F Applied Music**

An opportunity to continue at the college level the private study of piano, voice, organ, guitar, or any orchestra or band instrument to fulfill two credits of Core requirements in a performance-centered art. One hour lesson per week for twelve weeks. Restricted to non-majors and certain music students. May be repeated for credit. Special fee assessed. Cr 2.

##### **MUS 100G Music Appreciation and History**

A survey of music from the Gregorian chant to the modern times, covering musical practices of the renaissance, baroque, classical, romantic, and contemporary periods. Representative works by the outstanding composers of each period. Open to all students. Cr 3.

##### **MUS 102G Music of the Portland Symphony**

A course designed to increase the student's understanding and appreciation of the music scheduled for the Portland Symphony Orchestra's regular concerts of the semester. Attendance is required at the concerts in addition to regularly scheduled classes. Historical background, biography of composer, musical analysis, rehearsal and performance techniques, and music criticism. Open to all students. Cr 3.

**MUS 103G Introduction to Jazz**

A survey of jazz from its inception to the present day. Involves a study of the origins and stylistic development of jazz. Open to all students. Cr 3.

**MUS 104 Masterpieces of Opera**

An introduction to the forms and conventions of music drama from early opera to contemporary works presented in historical order. Other aspects of this genre to be explored will include the role of the composer, librettist, conductor, singer/actor, stage director, set designer, costumer, and lighting designer in opera. Open to all students. Cr 3.

**MUS 110F Fundamentals of Music**

A background study of concepts and skills essential to an intelligent reading of music. The development of natural music abilities through participating in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures. Open to all students. Cr 3.

**MUS 202G Music in America**

A survey of the important trends in music from colonial days to the present. Emphasis will be placed on the role of the native American composer in the development of sacred music, concert music, jazz, musical comedy, and pop music. Open to all students. Cr 3.

*Music Performance Groups*  
*Major Ensembles*

**MUS 400F Chamber Orchestra**

A string, wind, and percussion ensemble open to all University students and community members through audition. The ensemble focuses on the fundamentals of ensemble performance, dealing with a variety of literature, and performs at least one major concert per semester. Cr 0.5.

**MUS 401F University Chorale**

A choral ensemble for mixed voices open to all University students through audition. The Chorale sings repertoire from all historical periods and performs locally and on a spring tour. The purposes of the ensemble are to develop musical expression and precision of intonation and rhythm and to promote the musical development necessary for excellence in ensemble singing. Prerequisite: audition. Cr 0.5.

**MUS 203G Music in the Twentieth Century**

A study of trends in European and American music from the beginning of the century to the present with emphasis on the literature of the major composers. Open to all students. Cr 3.

**MUS 204 Symphonic Literature**

A survey of music for the symphony orchestra from the pre-classical period of C.P.E. Bach to the present. Open to all students. Cr 3.

**MUS 205G Chamber Music Literature**

An historical survey of the literature for chamber ensembles from the classical period to the present. Recorded and live performances will be studied in class. Open to all students. Cr 3.

**MUS 211 Class Piano**

Practical class piano for the elementary teacher with little or no piano background. Course covers note reading, scales, accompaniment of simple songs, transposition, and sight reading. Open to all students. Cr 2.

**MUS 334F Electronic Music I**

Lectures, discussions, and exercises in sound generation and processing, with emphasis on voltage-controlled systems. The student's time will be divided between class sessions and actual work in the electronic studio. Open to all students. Cr 3.

**MUS 402F University Concert Band**

A wind and percussion ensemble open to all University students through audition. The ensemble focuses on the fundamentals of ensemble performance dealing with a variety of literature. The University Concert Band performs at least one major concert per semester and is active in presenting school assembly programs. Cr 0.5.

**MUS 405F The Chamber Singers**

A small ensemble of mixed voices selected by audition from the membership of the University Chorale. The ensemble specializes in a cappella repertoire, notably of the Renaissance era and the 20th century. Prerequisite: audition. Cr 0.5.

**MUS 408F Wind Ensemble**

Cr 0.5.

## *Small Ensembles*

### **MUS 403 Percussion Ensemble**

A percussion ensemble open to all University students through audition. Cr 0.5.

### **MUS 404 Opera Workshop**

This ensemble will focus on the union of musical ideas with dramatic situations and will explore the ways in which singers must convey the essence of a dramatic situation. Performances of scenes from operas, operettas, and musical theater. A vocal performance major may take this ensemble twice in lieu of one credit of chamber music. Cr 0.5.

### **MUS 406 Chamber Music**

A performance course open to all qualified students interested in forming chamber groups:

duets, trios, quartets, quintets, etc., under faculty supervision. Cr 0.5.

**MUS 407 Jazz Ensemble** An instrumental ensemble specializing in the study and performance of jazz for large and small groups from Dixieland to present. Open to all students by audition. Cr 0.5.

### **MUS 409 Harp Ensemble**

A harp ensemble open to all University students by audition. The ensemble focuses on the fundamentals of ensemble performance and plays literature of contrasting musical periods and styles. Cr 0.5.

## *Courses for Majors*

### *Music History and Theory*

#### **MUS 120G History of Music I**

A survey of Western and non-Western music and a unit on Medieval music. Representative examples are played, analyzed, and discussed, with special focus on the development of listening and research skills. Music majors only or permission of the instructor. Cr 3.

#### **MUS 121G History of Music II**

Renaissance and Baroque periods; a continuation of MUS 120G, beginning with Ockeghem and Josquin through Bach and Handel. The elements of musical language and style are traced through representative composers' works. Listening, analysis and independent research are required. Music majors only or permission of the instructor. Cr 3.

#### **MUS 130F Music Theory I**

This course covers scales (major and minor), keys, intervals, and triads; identification of triads and seventh chords in inversion; principles of notation; part-writing with root position and first inversion triads; cadences; harmonization of soprano and bass lines; and phrase forms. Prerequisite: Music majors only or permission of the Department. Cr 3.

#### **MUS 130 Music Theory Lab I**

A laboratory course in music theory required of those students needing additional assistance in first semester theory, as determined by the student's score on the entrance testing. To be taken concurrently with MUS 130 Music Theory I LEC. Does not count for music elective credit. Cr 2.

#### **MUS 131 Music Theory II**

A continuation of the study of harmony, including the use of triads in second inversion; modulation; non-harmonic tones; the dominant seventh chord; other diatonic seventh chords; and

simple binary and ternary forms. Prerequisite: MUS 130. Cr 3.

#### **MUS 132 Sight Singing and Ear Training I**

A course in sight singing and ear training. Music majors and minors only. Cr 1.

#### **MUS 133 Sight Singing and Ear Training II**

A continuation of MUS 132. Prerequisite: MUS 132. Cr 1.

#### **MUS 206 Jazz History**

This course provides an in-depth examination of the historical evolution of jazz, as well as a familiarity with the major and secondary figures in the idiom. Emphasis is placed on detailed listening assignments and class discussions. Prerequisite: MUS 103G, music major status, or permission of instructor. Cr 3.

#### **MUS 220G History of Music III**

Classical and romantic periods; historical development and musical practices from the establishment of the sonata, string quartet, and symphony, through program music, music-drama, and the rise of nationalism in music. Works of outstanding composers are played, analyzed, and discussed. Music majors only or permission of the instructor. Cr 3.

#### **MUS 221G History of Music IV**

Contemporary period; continuation of MUS 220, from Impressionism to recent tendencies. Melodic, harmonic, rhythmic, and structural features of twentieth-century American and European music and their relationship to tradition. Music majors only or permission of the instructor. Cr 3.

#### **MUS 230 Music Theory III**

A continuation of the study of tonal music, including the further examination of modula-



tion; melodic chromaticism; chromatic chords, including altered chords, chords with secondary functions, and linear chords; and composition in the simple forms of the 18th and 19th centuries. Prerequisite: MUS 131. Cr 3.

#### **MUS 231 Music Theory IV**

Techniques of 20th-century composition, including the study of harmony, melody, and texture. Related studies include music theory in the twentieth century, new sound resources, and new technologies. Prerequisite: MUS 131. Cr 3.

#### **MUS 232 Sight Singing and Ear Training III**

An advanced course in sight singing and ear training. Prerequisite: MUS 133. Cr 1.

#### **MUS 233 Sight Singing and Ear Training IV**

A continuation of MUS 232. Prerequisite: MUS 232. Cr 1.

#### **MUS 320 Seminar in Music History**

A concentrated study of selected topics in music history based on individual research. Prerequisite: History of Music I, II, III, and IV. For music majors or minors. Others only with permission of instructor. Cr 3.

#### **MUS 321 Literature of the Major Instrument**

A survey of the literature for voice or a specific instrument. Except for piano or voice, which are offered in class sessions when the number of registrants warrants it, this will be scheduled as private study. Normally the piano and voice sessions will be offered in alternate years. For performance majors. Other music majors only with permission of the department. Cr 2.

### *Music Performance*

#### **MUP 201F Applied Music**

May be taken in piano, voice, organ, guitar, or any orchestra or band instrument. One half-hour lesson per week for twelve weeks in the minor performance area in fulfillment of applied music requirements. Restricted to music majors and minors. May be repeated for credit. Special fee assessed. Cr 1.

#### **MUP 202F Applied Music**

May be taken in piano, voice, organ, guitar, or any orchestra or band instrument. One hour lesson per week for twelve weeks in the major performance area in fulfillment of applied music requirements. Restricted to music majors and minors. May be repeated for credit. Special fee assessed. Cr 2.

#### **MUP 203 Applied Music**

May be taken in piano, voice, organ, guitar, or any orchestra or band instrument. One hour lesson per week for twelve weeks in the major

#### **MUS 330 Form and Analysis I**

Study and analysis of music of the classical, romantic, and contemporary periods with emphasis on homophonic forms and styles. Prerequisite: MUS 131. Cr 3.

#### **MUS 331 Form and Analysis II**

Study and analysis of music of the baroque and contemporary periods with emphasis on contrapuntal forms and styles. Prerequisite: MUS 131. Cr 2.

#### **MUS 332 Counterpoint**

Tonal counterpoint. The process of invention and fugue as exemplified in the music of the baroque era. Prerequisites: MUS 230 and MUS 331. Cr 3.

#### **MUS 420 Orchestration**

A study of the nature of the various instruments. Practice in scoring for instrumental combinations, orchestra, and band. Prerequisite: MUS 231. Cr 3.

#### **MUS 497 Directed Study in Composition**

To provide juniors and seniors who have demonstrated creative capability an opportunity to compose utilizing twentieth-century techniques. Prerequisite: MUS 231 and permission of instructor. Cr 1-3.

#### **MUS 498 Independent Study in Music**

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field. Music majors only. Departmental permission required. Cr 1-3.

performance area in fulfillment of applied music requirements. Restricted to B.M. performance majors. May be repeated for credit. Special fee assessed. Cr 3.

#### **MUS 240 Instrumental Conducting Lab**

Performance techniques on instruments of primary and/or secondary interest to each student. Principles of ensemble training are exemplified. Cr 0.5.

#### **MUS 241 Choral Conducting Lab**

Performance techniques in a choral ensemble. Principles of ensemble singing and training of choral ensembles are exemplified. Cr 0.5.

#### **MUS 244 Basic Conducting**

Practical conducting experiences; score reading, basic beat patterns, gestures, and interpretation. Prerequisite: MUS 230. Cr 2.

**MUS 255 Guitar**

An introduction to basic guitar skills. Emphasis is placed upon those skills that lead to playing effective accompaniments. Cr 1.

**MUS 310 Organ Improvisation I**

This course will cover the basics of improvisation at the organ. The goal is to equip the student with the skills needed in church situations. Hymns, chorales, and plainsong melodies will form the basis for learning to improvise preludes, postludes, and interludes in a variety of styles. This course will be scheduled as an additional applied music time with an organ specialist. Prerequisite: MUS 131 or permission of instructor. Cr 1.

**MUS 311 Organ Improvisation II**

This course is the continuation of MUS 310. It will be scheduled as an additional applied music time with an organ specialist. Prerequisites: MUS 131 and MUS 310, or permission of instructor. Cr 1.

**MUS 337 Jazz Arranging**

Study and analysis of music written for small and large jazz ensembles. Practice in writing for a variety of instrumental combinations in the jazz idiom. Prerequisite: MUS 230 or permission of instructor. Cr 3.

**MUS 340 Instrumental Conducting Lab**

Performance techniques on instruments of primary and/or secondary interest to each student. Principles of ensemble training are exemplified. The repertoire consists of selections from various periods and styles and is varied from year to year in order to cover a considerable range during the student's attendance. Cr 0.5.

**MUS 341 Choral Conducting Lab**

Emphasizing singing technique and interpretation and an exploration of choral literature of various periods and styles. Principles of choral training are exemplified. The repertoire is varied from year to year so that the course covers a considerable range during a given student's attendance. Cr 0.5.

**MUS 344 Instrumental Conducting**

Advanced development of non-verbal gestures through the art of instrumental conducting. Score reading analysis, rehearsal techniques and performance preparation. Prerequisite: MUS 244. Cr 2.

**MUS 345 Choral Conducting**

Advanced development of non-verbal gestures through the art of choral conducting. The course includes score study analysis, rehearsal techniques, and performance preparation. Prerequisite: MUS 244. Cr 2.

**MUS 356 Diction for Singers**

A study of the principles of English, Italian, German, and French diction through use of the International Phonetic Alphabet (IPA). An application of these basic principles to art songs in the four languages. Students shall perform songs in all four languages. This course is required of voice performance majors. Prerequisite: 3 semesters of voice study. Cr 3.

**MUS 372 Pedagogy of the Major Instrument**

A study of the teaching methods and materials for voice or instruments. Except for piano and voice, which are offered in class sessions when the number of registrants warrants it, this will be scheduled as additional applied music time with an instrumental specialist. Normally the piano and voice sessions will be offered in alternate years. For performance majors. Other music majors only with permission of the department. Cr 2.

**MUS 374 Jazz Pedagogy**

A study of the teaching methods and materials in the jazz education area. Emphasis will be placed on jazz ensemble literature and conducting techniques, beginning improvisation and writing techniques, securing employment in the jazz field, and promotion of a jazz curriculum within the schools. Prerequisite: open to music majors of junior standing. Cr 2.

**MUS 380 Jazz Improvisation I**

A course designed to teach the student to improvise in the jazz idiom. Studies include jazz theory and standard jazz literature. Recommended for instrumental music majors. Prerequisite: MUS 131 or permission of the instructor. Cr 3.

**MUS 381 Jazz Improvisation II**

A performance course designed to expand upon the improvisation principles presented in Jazz Improvisation I. Students will learn advanced jazz theory and use that knowledge to perform in the jazz language both in class and in lab situations. Prerequisite: MUS 380 or the equivalent. Cr 3.

**MUS 442 Recital Class**

Performance in major field, stage department, and evaluation of performances. May be repeated for credit. Cr 0.

**MUS 452 Accompanying**

A workshop course in applied accompanying under faculty supervision. One-half credit is awarded for each twenty hours of University-supervised accompanying, with a maximum of two credits in any academic year. Cr 0.5-2.

**MUE 100 Introduction to Music Education**

This course will provide an introduction to varied music programs found in schools, K-12. Students will explore the value of music education. An overview of effective teaching techniques will be presented and students will participate in structured observations. Restricted to music majors and minors. Prerequisite: None.

Cr 1.

**MUE 220 Historical Foundations and Learning Theories**

This course will provide an overview of the historical role of schools in American society and an introduction to contemporary learning theory upon which music instruction in kindergarten through grade 12 is predicated. Restricted to majors and minors. Prerequisite: None.

Cr 3.

**MUE 221 Brass Class**

Methods of teaching brass instruments including practical experience on the various instruments; elements of transposition. Prerequisites: MUS 131 and 133.

Cr 1.

**MUE 222 Percussion Class**

Practical experience on and methods of teaching percussion instruments. Prerequisites: MUS 131 and 133.

Cr 1.

**MUE 224 Woodwinds I**

Methods of teaching flute and clarinet. Practical experience on these instruments; elements of transposition. Prerequisites: MUS 131 and 133.

Cr 1.

**MUE 225 Woodwinds II**

Methods of teaching saxophone, oboe, and bassoon. Practical experience on these instruments; elements of transposition. Prerequisite: MUE 224.

Cr 1.

**MUE 226 Vocal Pedagogy**

A study of basic principles of vocal production—breathing, phonation, registration, and resonance—and a discussion of the techniques used to teach voice.

Cr 1.

**MUE 320 String Class I: Violin and Viola**

Practical experience playing and methods of teaching violin and viola, with additional information on string programs in the public schools. Prerequisites: MUS 131 and 133.

Cr 1.

**MUE 321 String Class II: Cello and Bass**

Practical experience playing and methods of teaching cello and bass. Prerequisite: MUE 320.

Cr 1.

**MUE 322 Elementary General**

**Music Methods**

Study of methods and materials in present elementary school music education, including those of Kodaly and Orff. Restricted to junior and senior music majors and minors. Prerequisite: MUS 220.

Cr 3.

**MUE 323 Secondary Choral Methods**

Techniques and procedures for teaching choral music in junior and senior high schools. Restricted to junior and senior music majors.

Cr 3.

**MUE 324 Instrumental Methods**

The course will acquaint the instrumental music major with methods and procedures of teaching instrumental music in the public schools. Administering and organizing the program, recruiting, budgets, public relations, ensemble literature, scheduling and performance are issues addressed in the course. Discussions will focus on developing an effective instrumental music program in the public schools. Restricted to junior and senior music majors.

Cr 3.

**MUE 400 Student Teaching**

Full-time student teaching during the senior year is provided for one semester under direct supervision in off-campus situations for all who meet requirements. Normally, two separate half-semester experiences are provided which encompass both elementary and secondary as well as instrumental and vocal areas.

Cr 12.

**MUE 420 Marching Band Techniques**

The course is designed to prepare the music educator to organize and effectively teach Marching Band in the public school. A statement of philosophy is stressed. Marching styles, execution, music developing, marching percussion, role of the drum major and effective instrument placement are emphasized in the course. Restricted to junior and senior music majors.

Cr 2.

**MUE 422 Music for Exceptional Children**

A survey of learning styles of exceptional children. Practicum in instructional adaptations for mainstreamed children. The content and implications for music educators of P.L. 94-142. To be taken concurrently with EDU 324, Student Teaching. Prerequisites: MUE 322 or equivalent and HRD 333J.

Cr 1.

# Philosophy

*Chair of the Department:* Robert B. Loudon, 47 Exeter St., Portland

*Professors:* Gavin, Grange, F. Schwanauer; *Associate Professors:* Caffentzis, Conway, Loudon, Murphy; *Assistant Professors:* Brod, Schroeder, Winger

“Philosophy unties knots in our thinking; hence its results must be simple, but philosophizing has to be as complicated as the knots it unties.”

Ludwig Wittgenstein, *Zettel* #452

The place of philosophy at the center of any educational endeavor is as true today as it ever was. The perennial questions that philosophy addresses, such as “Who am I as a human being?, How should I act?, What can I know?, What are my obligations to others?, How should society be organized?”, are fundamental issues with which education must wrestle and into which it must provide insight. Philosophy is a reasoned pursuit of fundamental truths. It is a systematic investigation of the key assumptions that underlie our thinking and which ordinarily are taken for granted. Much of what is learned in philosophy can be applied in virtually any endeavor. This is both because philosophy touches upon so many subjects and, especially, because many of its methods and analyses are usable in any field. The study of philosophy is beneficial in terms of achieving the following:

*General Problem-Solving Ability* The study of philosophy enhances one’s problem-solving capacities in a way no other activity does. It helps one to analyze concepts, definitions, arguments, and problems. It contributes to one’s capacity to organize ideas and issues, to deal with questions of value, and to extract what is essential from masses of information.

*Communication Skills* Philosophy provides some of the basic tools of self-expression, namely, skills in presenting ideas through well-constructed, systematic arguments. One learns to build and defend one’s own views, to appreciate competing positions.

*Writing Skills* Writing is an important part of most philosophy courses. Philosophy teaches interpretive writing through its examination of challenging texts, comparative writing through emphasis on fairness to alternative positions, argumentative writing through developing students’ ability to establish their own views, and descriptive writing through detailed portrayal of concrete examples, the anchors to which generalizations must be tied.

*The Understanding of Other Disciplines* Many important questions about a discipline, such as the nature of its concepts and its relation to other disciplines, do not belong to that discipline, are not usually pursued within a discipline, and are philosophical in nature. Philosophy of science, for instance, is needed to supplement the understanding of the natural and social sciences which one derives from scientific work itself. Philosophy of art, social and political philosophy, the philosophy of religion are of similar value in understanding the respective fields of art, sociology, politics, and religion.

## *Career Applications*

Philosophers know, of course, that the important question is not what you can do with a field of study but rather what a field of study does with you. Nevertheless, it has been a welcome surprise within recent years to witness how many professions—business, law, nursing, for example, want and reward many of the capacities that the study of philosophy develops: the ability to solve problems, to communicate, to organize ideas and issues, to assess pros and cons, and to reduce complex data. These capacities represent transferable skills. For this reason, people trained in philosophy are not only prepared to do many kinds of tasks, they can also cope with change, or even move into new careers, more readily than others.

## *Student Involvement*

Student participation in the philosophical activities of the philosophy program is strongly encouraged. Students have organized a Philosophy Majors and Minors Association which provides a forum for students to discuss their

philosophical work. This Philosophy Symposium also facilitates communication between faculty and students and ensures student involvement in Departmental deliberations. In recent years the Philosophy Symposium has invited guest lecturers on a variety of philosophical topics. This has enabled students to meet a broad range of philosophers including international guests.

## ***Programs and Requirements***

### ***Bachelor of Arts in Philosophy***

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

Each major in philosophy will arrange a program of courses in conference with the chair or a member of the department who is assigned as the student's advisor. The program will be designed in terms of the student's interests, needs, vocational plans, and the year in which the student declares a major. The major will require 36 hours of courses beyond a PHI 100-level course. Any introductory philosophy course is a prerequisite to all other courses in philosophy.

All philosophy majors must take four history of philosophy courses. The first two of these, which need not be taken in sequence, must be PHI 310I (Ancient Philosophy) and PHI 330I (Early Modern Philosophy). Thereafter, any two additional courses in the history of philosophy may be taken. These courses are PHI 315I, PHI 320I, PHI 340I, PHI 350I, PHI 360I, PHI 370I, PHI 380I.

In the last year a senior tutorial is **optional**. This tutorial consists of a major paper (minimum length: 50 pages) on a topic selected by the student and directed by one member of the Department. The student will meet with the mentor on a regular basis during the semester of the senior tutorial. Upon completion of the paper, an oral examination will be conducted by the full Department. Upon successful completion of the senior tutorial, honors status is granted if a student's GPA in philosophy is at least 3.33. If the tutorial option is not taken, students must complete a Senior Seminar (PHI 400, 401, 402).

Philosophy majors who are enrolled in the Honors Program may allow their 3to 6-hour Honors Independent Tutorial (HON 311-HON 312) to be equivalent to the Senior Tutorial (PHI 410) and count toward the completion of their degree in philosophy, provided that the thesis addresses a philosophical topic and is mentored by a philosophy faculty member. The required thesis defense will involve both Philosophy Department faculty and that of the Honors Program.

Every major intending to pursue graduate study and teach in philosophy will be expected to take German or French through the intermediate level. German is preferred to French, although ideally both sets of courses should be taken. All majors are encouraged to take PHI 205 Symbolic Logic.

The gender-neutral language policy of the Department prohibits the use of sexist language in classes, course materials, and at Departmental events.

### ***Minor in Philosophy***

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 15.

Students who wish to pursue a minor in philosophy are required to take five courses beyond any PHI 100 course. These should include two courses in the history of philosophy: PHI 310I, PHI 315I, PHI 320I, PHI 330I, PHI 340I, PHI 350I, PHI 360I, PHI 370I, PHI 380I.

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#### **PHI 101E Introduction to Philosophy: Free Will and Determinism**

Is there a human will at all? This course will concentrate on the issue of freedom vs. determinism. The importance of the human will insofar as it influences views of experience, politics, society, etc., will also be considered. Prerequisite: ENG 100C or concurrent. Cr 3.

#### **PHI 102E Introduction to Philosophy: The Quest for Certainty**

Philosophy has often been defined as the attempt to become aware of the hidden assumptions we make in our everyday outlooks on life. The present course will deal with one of the most pervasive of these assumptions—the thesis that human beings should pursue certainty and objectivity at any price. The history of philoso-

phy will be utilized to trace and to criticize the identification of all true knowledge with certainty. Questions will be raised as to whether the quest for certainty is either feasible or beneficial to the human person. An analysis of some 20th-century alternatives, including existentialism and pragmatism, will be undertaken. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 103E Introduction to Philosophy: Human Alienation**

Why do human beings picture themselves as alienated from nature and from others? How did the problem of alienation come about? What possibilities exist for overcoming it? This course will deal with these issues and attempt to suggest viable alternatives. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 105E Introduction to Philosophy: Philosophy Through Its History**

An introduction to philosophy through its history and development, i.e., through an examination of central texts in the history of philosophy, up to and including contemporary works. Specific readings may vary from semester to semester, but will always include some canonical works by classic Western philosophers (e.g., Plato, Aristotle, Descartes, and Kant). Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 106E Introduction to Philosophy: Why Philosophize?**

The course centers about the exploration of a single question: what it means to think philosophically. In the context of this question, we will examine what are the sources of philosophical thought and whether philosophy can justify its claim to be the foundation of all reflective endeavor. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 107E Introduction to Philosophy: World Philosophy**

This course presents the world views of philosophers from ancient to contemporary times. The thinkers will be chosen from a broad range of cultural and ethnic backgrounds. Emphasis will be placed on the wide diversity and historical background of philosophical positions. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 109E Introduction to Philosophy: Law, Politics and Society**

This course considers the place of law in political theory. After addressing the philosophical implications of Plato's and Aristotle's conceptions of law, the emphasis of the course will be on the origins and contemporary role of law in liberal political philosophy. After studying the development of liberal theory in the writings of Locke and Mill, the course concentrates on

contemporary legal theory as it bears on the overall question of the role of law in liberal political theory. Cr 3.

### **PHI 110E Introduction to Philosophy: Feminist Perspectives**

To what extent do cultural assumptions about gender shape a society's notion of rationality and justice? The course explores this question by examining feminist critiques of Western philosophy along with a selection of contemporary anti-sexist and anti-racist theories of social life. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 111E Introduction to Philosophy: Philosophical Reading (and Writing)**

This course aims to teach the student a particular skill: *philosophical* reading (and writing). On the most immediate level this will be a course in reading (and writing about) philosophical texts. The texts will give the student a sense of the immense history, wealth, and suggestibility of philosophical writing, its various genres, and its authors. On another level, the course will teach the skill of reading (and writing) *philosophically*. Any piece of writing can be read (and written about), with profit, philosophically. The second skill and its profit cannot be acquired without first studying the first, thus the bulk of the course will focus on reading (and writing about) philosophy texts philosophically. About one month will be devoted to the reading of each book. Prerequisite: ENG 100C or concurrent. Cr 3.

### **PHI 200 Metaphysics**

An analysis of various theories of reality, together with a critical examination of their conceptual constructs, principles and methodologies. Issues to be discussed include change, time, freedom and necessity, immortality and God, good and evil. Thinkers to be studied include Plato and Aristotle, Spinoza, Kant, Hegel, Whitehead and Heidegger. Prerequisite: any PHI 100-level course. Cr 3.

### **PHI 205 Symbolic Logic**

Techniques of modern deductive logic; properties of formal systems; logical implications and paradoxes of language. Prerequisite: any 100-level philosophy course. Cr 3.

### **PHI 210 Ethical Theories**

Critical evaluation of major ethical theories and systems. Extensive reading in original texts. Analysis of contemporary ethical issues. Prerequisite: any PHI 100-level course. Cr 3.

### **PHI 211 Ethics in Business**

This course will be an investigation of the wide range of ethical issues confronting business. It will study these issues primarily through an examination of specific case studies of business

practices. It will also present various philosophical concepts of what constitutes right conduct and will attempt to see whether these concepts can assist the business person in resolving the ethical problems with which business is faced.

Cr 3.

#### **PHI 212 Environmental Ethics**

This course analyzes the relations between human beings and the environment in terms of the concepts of justice, the good, and human responsibilities. It attempts to provide a new cosmological model for adjudicating between conflicting rights and duties. Issues to be discussed include animal rights, environmental protection, and ecological harmony. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 220 Philosophy of Art**

Inquiry into the question of whether aesthetic experience is intelligible, or emotional, or both; examination of various theories and interpretations, classic and contemporary. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 221 Philosophy of Film**

This course concentrates on the construction of meaning in the context of cinema. Major emphasis is placed on cinema as a product of social stereotypes. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 225 Philosophical Psychology**

An analysis of the major philosophical issues facing the science of psychology: language and the unconscious, body-mind interaction, freedom and determinism. Major figures to be studied include Plato, Aristotle, Spinoza, Freud, Merleau-Ponty, Lacan, and Skinner. Thematic emphasis will be on the historic interaction between psychology and philosophy in the development of Western thought. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 230 Philosophy of Religion**

Analysis of the nature of religious experience, knowledge, and language. Special attention given to problems, classical and contemporary, exhibited in religious experience and relevant to areas of common concern in the sciences, humanities, and philosophy. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 240 Political Philosophy**

Critical evaluation of political philosophies, classical and contemporary; extensive reading in original texts; analysis of contemporary political issues. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 250 Philosophy of Science**

An examination of two different models generally used in approaching scientific activity

philosophically: the logical model and the historical model. Questions to be raised include whether these two approaches are mutually exclusive or whether one can subsume the other, and at what cost. Issues to be covered include description vs. explanation; scientific vs. non-scientific explanation; the issue of whether to include pragmatic and psychological dimensions of meaning in scientific explanations; the question of whether all facts are "theory-laden"; and the relationship between facts, laws, and theories in science. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 260 Philosophy of Law**

Critical evaluation of select issues in the philosophy of law. Possible topics include: the nature of law (positivism, natural law, legal realism); judicial decision making; constitutional adjudication; the justification of punishment; the legal enforcement of morality; legal responsibility; the judicial system. Readings are drawn from the disciplines of both philosophy and law, and include contemporary as well as historical selections. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 265 Feminist Philosophy**

The course explores the contributions of feminist philosophers to gender analysis and the philosophical assumptions inherent in theories of gender difference, including theories from sociobiology, biological determinism, physiology, and social construction theory. Examination of gender assumptions may be studied in any of the following applied areas: women's work, women and sports, legal sexual inequality, pornography, and reproductive rights. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 270 Epistemology**

An analysis of various theories of knowledge in reference to their methodologies and consequences. Texts to be read include Berkeley, Hume, Descartes, Kant, and Hegel. Prerequisite: any PHI 100-level course.

Cr 3.

#### **PHI 275 Theories of Language**

This course examines the nature of language from an interdisciplinary perspective. Philosophy, linguistics, and psycholinguistics will be employed to inquire into the structure and function of language, and its relation to perception and the human mind. Prerequisite: any PHI 100-level course. This course is also offered as COM 275.

Cr 3.

#### **PHI 290 Problems in Philosophy**

Consideration of selected problems or systems of philosophical significance, including general problems of metaphysics, epistemology, axiology, specialized areas, etc. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 291 Death and Dying**

Recent success in life-prolonging techniques has resulted in the creation of new disagreements over the proper definition of death. Which definition of death is the most adequate? Some have argued that dying, not death is the vitally important topic. Has the term death changed its meaning from time to time and place to place in human history? This course will deal with these and similar epistemological issues. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 295 Medicine, Madness and Disease**

Recent advances in modern medicine and medical technology challenge traditional notions of health, sanity, and the social order. The course will examine some of the controversial ethical dilemmas that patients, families, and health care providers confront, such as informed consent, truth-telling, prenatal screening, abortion, involuntary commitment for the mentally ill, drug testing, and patient rights. The course will critique the assumptions behind these and other medical practices. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 310I History of Ancient Philosophy**

Philosophic thought from the pre-Socratics to the late Hellenistic period, with major emphasis on Plato and Aristotle. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 315I Eastern Philosophy**

This course examines the major texts of the great Asiatic religions: Hinduism, Buddhism, Confucianism, Taoism, and Zen. Special emphasis is placed on the ethical and metaphysical dimensions of these traditions as well as their significance for contemporary theories of the person, social justice, and human fulfillment. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 320I History of Medieval Philosophy**

The merger of the philosophic with the religious stream; ideas of Augustine, Thomas Aquinas, Bonaventure, and others critically examined; determining cultural factors explored. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 330I History of Early Modern Philosophy: Descartes to Kant**

Main currents of rationalism and empiricism are explored, as developed in major writings from Descartes to Kant. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 340I History of Late Modern Philosophy**

Development of German idealism; emergence of social and scientific philosophies; contribu-

tions of Kant, Hegel, Marx, Schopenhauer, Nietzsche, Feuerbach, and others. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 350I American Philosophy**

History and background of the origin of philosophical ideas in America; particular emphasis given to Peirce, James, Royce, Dewey. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 360I Existentialism**

An examination of the historical development and basic themes of existentialism as found in the writings of its major representatives: Kierkegaard, Nietzsche, Heidegger, Sartre, Buber, Marcel, and others. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 370 Analytic Philosophy**

An historical approach to twentieth-century linguistic philosophy. This course will begin with logical atomism, continue through the era of logical positivism, and end with ordinary language analysis. Extensive reading of primary sources and major commentators. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 380 Contemporary Continental Philosophy**

The course presents a survey of central movements within continental philosophy in the 20th century phenomenology, structuralism, hermeneutics, and deconstruction. Possible figures of study are: Husserl, Heidegger, Merleau-Ponty, Sartre, Foucault, Gadamer, Barthes, and Derrida. Prerequisite: any PHI 100-level course.

Cr 3.

**PHI 398 Independent Study**

Independent study undertaken under the mentorship of a professor in the department. Prerequisites: a minimum of two (2) 300-level philosophy courses plus written permission of the instructor involved.

Cr 3.

**PHI 400, 401, 402 Seminar in Philosophy**

These numbers are used to indicate seminar courses dealing with a specific topic or person in philosophy. Topics or individual philosophers will change from year to year and may or may not be repeated. The prerequisite for any 400-level seminar course is two (2) 300-level courses in philosophy, or permission of the instructor.

Cr 3.

**PHI 409 Senior Seminar**

A research seminar designed to provide senior level students an opportunity to participate in the research efforts of individual faculty and collaborate with each other in the design, methodology and completion of their tutorials. Prerequisites: advanced standing as a philosophy major and permission of the Department.

Cr 3.



### PHI 410 Senior Tutorial

Designed to furnish senior philosophy majors with extensive training, under tutorial supervision, in analysis of a philosophical problem or system or philosopher, with a view to produc-

ing and presenting a senior paper for oral defense. Prerequisites: advanced standing as a philosophy major and permission of the Department. Cr 3.

## Physics

*Chair of the Department:* Jerry LaSala, 260 Science Building, Portland  
*Associate Professors:* Armentrout, Coakley, LaSala, Walking

The field of physics is concerned with the study of matter, energy, motion, and the interaction of material particles. It is a cornerstone science that attempts to explain at a fundamental level the concepts underlying phenomena important to the other physical sciences, to the biological sciences, and to engineering. The Physics Department provides elementary courses to introduce students to the field, general and topical courses that support the other science departments and engineering, and a four-year program leading to a B.A. degree in physics. The physics major covers the traditional areas of modern and classical physics, and is intended to prepare graduates for careers in physics and related technical areas or for graduate school.

In addition to the B.A. program, the USM Physics Department provides the first two years of the courses required for the engineering physics B.S. major at the University of Maine. Students planning to transfer to the Orono campus should contact the USM Physics Department as early as possible to plan courses.

### *Programs and Requirements*

#### *Bachelor of Arts in Physics*

The total number of credits in physics and related areas (exclusive of the University's Core curriculum) required for the physics major: 64. A student majoring in physics must take 37 credit hours of physics courses including some requirements and some electives as outlined below. In addition, 16 credits of mathematics courses, 8 credits of chemistry courses, and at least 3 credits of computer science courses must be completed.

##### 1. Required courses

PHY 121K, 122K, 123, 124	General Physics I & II with Lab (PHY 111K may replace PHY 121K and 122K with Departmental permission.)
PHY 211, 212	Modern Physics with Lab
PHY 221	Mechanics I
PHY 223	Electricity & Magnetism I (ELE 351 may be taken as an alternative)
PHY 240	Intermediate Lab
PHY 291	Special Relativity

2. Electives. In addition to the required courses, the student must take a minimum of 13 credits of physics courses numbered 200 or higher including at least 3 credits from each of groups 1, 2, and 3 below.

##### Group 1. Classical Physics Courses

PHY 321	Mechanics II
PHY 323	Electricity and Magnetism II
CHY 371	Physical Chemistry

##### Group 2. Topical Courses

PHY 281	Astrophysics
PHY 269	Radiological Physics
PHY 375	Optics
PHY 251	Electronics
PHY 253	Microprocessor Electronics

##### Group 3. Advanced Courses

PHY 311	Quantum Mechanics
PHY 440	Advanced Physics Laboratory I

#### Group 4. Other Electives

PHY 390 Special Topics in Physics

The physics major must also complete the following courses:

MAT 152D Calculus A

MAT 153 Calculus B

MAT 252 Calculus C

MAT 350 Differential Equations

CHY 113K & 114K Principles of Chemistry I with Lab

CHY 115 & 116 Principles of Chemistry II with Lab

COS 140 Programming in FORTRAN

or

COS 160 & 170 Structured Problem Solving: PASCAL with Lab

To graduate as a physics major, a student must maintain a minimum GPA of 2.0 in all courses which satisfy the major requirement, and a minimum overall GPA of 2.0.

#### *Minor in Physics*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 19. The required courses are PHY 121K, 122K, 123, 124 or PHY 111K, 112; PHY 211, 212; at least 6 credits of physics courses numbered 200 or higher.

#### **PHY 101K Introduction to Physics**

An elementary approach to the study of mechanics, heat, sound, electricity, magnetism, light, and modern physics, intended for the student who desires a one-semester introduction to the subject with emphasis on concepts as opposed to problem solving. Students desiring laboratory work should also register for PHY 102K. Students planning to major in any of the natural sciences are not directed to this course but rather to a more advanced introductory course. Prerequisite: high school algebra. Cr 3.

#### **PHY 102K Introduction to Physics Laboratory**

Laboratory experiments and additional material designed to supplement the topics considered in PHY 101K. Prerequisite: concurrent registration in PHY 101K or permission of the instructor.

Cr 1.

#### **PHY 105 Acoustics and Noise**

A semi-descriptive course on sound, with emphasis on applications of interest to the scientist and nonscientist alike. Discussion will cover the questions: what is sound, how is it perceived, how is it measured, what are its benefits and liabilities? Particular topics may include: the ear and hearing, sound waves, musical acoustics, building acoustics, noise and the environment, legal aspects of noise, underwater sound, biological aspects of sound, and ultrasonics. Consideration will be given to the interests of the members of the class. Three hours of lecture and demonstration. Occasional field experience may be provided. Prerequisite: a course in high school algebra.

Cr 3.

#### **PHY 109 Radiation: Problems and Effects**

An introduction to several current topics of vital importance such as the use of nuclear fission and fusion in power generation, radioactive materials and x-rays in medical diagnosis and treatment, measurement of radiation, safety considerations, and biological effects. Intended to aid the understanding of the non-scientifically trained citizen. Student participation and discussion will be encouraged. Lecture with demonstration and occasional student use of radiation-related equipment, and maximum use of external resources. Prerequisites: None; high school physics and chemistry helpful. One two and one-half hour session per week. Cr 3.

#### **PHY 111K Elements of Physics I**

An introduction to the fundamental concepts of mechanics, sound and heat. Lectures, problem solving, demonstrations, laboratory exercises will be used to develop an understanding of physical phenomena. This course is not recommended for students planning to major in the physical sciences or engineering. Prerequisite: successful completion of the University's minimum proficiency requirement in mathematics. Three hours of lecture, two hours of laboratory, and one hour of recitation per week. Cr 4.

#### **PHY 112 Elements of Physics II**

A continuation of PHY 111K introducing the concepts of electricity, magnetism, optics, and modern physics. Prerequisite: PHY 111K or equivalent. Three hours of lecture, two hours of laboratory, and one hour of recitation per week.

Cr 4.

**PHY 121K General Physics I**

An introduction to the fundamental concepts of mechanics, sound and heat, using calculus. This course is recommended for students who plan further study in physical sciences, mathematics, or engineering. It should be taken with PHY 122K. Prerequisite: prior or concurrent registration in MAT 152D or equivalent experience. Three hours of lecture and one and one-half hours of recitation per week. Cr 4.

**PHY 122K General Physics Laboratory I**

Experiments designed to illustrate the concepts studied in PHY 121K. Prerequisite: concurrent registration in PHY 121K or permission of the instructor. Two hours per week. Cr 1.

**PHY 123 General Physics II**

A continuation of PHY 121K, introducing the concepts of electricity, magnetism, and light, using calculus. This course is intended for students who plan further study in physical sciences, mathematics, or engineering. It should be taken with PHY 124. Prerequisites: PHY 121K or equivalent and one semester of calculus. Three hours of lecture and one and one-half hours of recitation per week. Cr 4.

**PHY 124 General Physics Laboratory II**

Experiments designed to illustrate the concepts studied in PHY 123. Prerequisite: concurrent registration in PHY 123 or permission of the instructor. Two hours per week. Cr 1.

**PHY 211 Introductory Modern Physics**

A discussion of the more important topics which show the departure of physics from its classical roots, namely, the nature of atomic particles, methods of determining particle properties, the concept of quantization, atomic and nuclear structure, and radioactivity. Prerequisites: PHY 123/124, or PHY 112, and MAT 152D. Cr 3.

**PHY 212 Modern Physics Laboratory**

A laboratory course designed to accompany PHY 211. The experiments will illustrate the determination of particle properties, spectroscopy, fundamental constants, radioactive decay, and safe methods of handling radioactive materials. Concurrent registration in PHY 211 is required. Cr 1.

**PHY 221 Mechanics I**

An intermediate treatment of classical mechanics and wave motion. Prerequisites: PHY 121K, 122K, and prior or concurrent registration in MAT 252. Cr 3.

**PHY 223 Electricity and Magnetism I**

An intermediate treatment of static and current electricity and magnetism, leading to Maxwell's Equations and their applications. Prerequisites: PHY 123, 124, and MAT 252. Cr 3.

**PHY 240 Intermediate Laboratory**

A sequence of experiments designed to illustrate the more important principles and measurement techniques of mechanics and electricity and magnetism. Prerequisites: one 200-level course and 2 semesters of calculus. Two 3-hour sessions per week. Cr 3.

**PHY 251 Principles of Electronics**

An introduction to electronics including DC and AC circuits, transistors, operational amplifiers, and combinatorial and sequential logic devices. The laboratory will cover the use of electronic instrumentation as well as illustrate principles. Prerequisite: MAT 152 or equivalent, or permission of instructor. Cr 3.

**PHY 253 Microprocessor Electronics and Applications**

A study of microprocessors and microprocessor interfacing. Programming of a representative 8-bit microprocessor will be covered. Laboratory experience will cover both machine language programming and interfacing of the microprocessor. Prerequisites: PHY 251 and any COS programming course. Cr 3.

**PHY 269 Radiological Physics**

A study of the effects of ionizing radiation on matter, emphasizing principles of radiation measurements, the effects of radiation on living materials, and the safe use of radiation. Prerequisites: PHY 121K, 122K, 123, 124, and one semester of calculus. Lecture 3 hours, laboratory 3 hours. Cr 4.

**PHY 281 Astrophysics**

An intermediate-level course in the physics of the astronomical universe. Topics covered include classical astronomy, celestial mechanics, the structure and evolution of stars and galaxies, and cosmology. No previous background in astronomy is required. Prerequisite: Physics 221. Cr 3.

**PHY 291 Special Relativity**

A study of the special theory of relativity at the intermediate level. This course is intended to complement PHY 211, but may be taken independently of that course. The course meets three hours per week for four weeks. Prerequisites: PHY 121, MAT 153. Cr 1.

**PHY 311 Quantum Mechanics**

A study of the quantum physics of atoms, nuclei, and particles. Topics covered include wave particle duality; the Schrodinger Wave Equation and its application to a variety of quantum systems, three-dimensional and time-dependent systems, and photons. Prerequisite: PHY 211 and PHY 221. Cr 3.

### **PHY 321 Mechanics II**

A study of kinematics and dynamics continuing beyond topics covered in PHY 221. Topics may include Lagrange's equations, Hamilton's equations, mechanics of continuous media, motion of rigid bodies, wave motion. Prerequisites: PHY 221, MAT 350. Cr 3.

### **PHY 323 Electricity and Magnetism II**

A study of classical electromagnetic theory going beyond topics covered in PHY 223. Topics include Maxwell's Equations in differential form and their application to a number of physical situations, especially electromagnetic waves. Prerequisite: PHY 223. Cr 3.

### **PHY 375 Optics**

An intermediate-level study of the more important principles of geometric and physical optics, with illustrations of both classical and modern applications. Prerequisites: PHY 223 and two semesters of calculus. Cr 3.

### **PHY 390 Independent Study in Physics**

A laboratory research investigation of an approved topic in physics, using the facilities of the University laboratories and/or those of industrial and professional laboratories. Prerequisite: consent of the instructor. Cr 3.

### **PHY 440 Advanced Physics Laboratory I**

This course may involve a series of experiments in physics or, by permission of the instructor, an advanced project in experimental physics. Prerequisites: PHY 240, PHY 212, and at least one 300-level physics course. Cr 3.

### **AST 100K Astronomy**

A descriptive survey of modern astronomy. Topics include theories about the origin and development of the universe, stellar evolution, the solar system, galaxies, observational methods and recent discoveries. No prerequisite. Cr 3.

### **AST 103K Activities and Experiments**

A one-credit course meeting weekly for two hours. May be taken concurrently with AST 100K to fulfill requirements for a science laboratory experience. Includes exercises on the Moon's orbit, Earth's orbital motion, rotation of Saturn's rings, the Sun, the Crab Nebula, variable stars, pulsars, Hubble's law, and galaxies. Two planetarium sessions. Prerequisite: AST 100K. Cr 1.

## **Political Science**

*Chair of the Department:* James Roberts, 126 Bedford St., Portland  
*Professors:* Fisher, Maiman, Pattenaude, Woshinsky; *Associate Professors:* Coogan, Faksh, Hamilton, Roberts; *Assistant Professor:* Williams

Political science is the systematic study of politics and government and is widely recognized as one of the core disciplines within the liberal arts curriculum. The study of political science is not intended to prepare students directly for any specific career, but it does provide substantive and analytic background that can lead to a variety of professions. Most obviously it serves those with an interest in entering politics and government. Political science majors go on to become town managers, city planners, budget specialists, foreign service officers, policy researchers, and to hold a variety of management positions in local, state, national, and international organizations. Beyond government, a political science degree leads naturally to graduate training, including law school. Many journalists and broadcasters were political science majors. Business has recognized the analytic and management skills obtained through training in political science. Indeed, some studies have estimated that perhaps one-third of undergraduate majors undertake careers in business. Political science training is also useful in other rapidly developing fields such as polling, communications, campaign management, consulting, private and public interest group activity, and data analysis. College teaching has also been a traditional career for the political scientist. Demographics now suggest that entering freshmen can look forward to good job prospects by the time they have completed their graduate educations.

### *Bachelor of Arts in Political Science*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

Each major must complete POS 101J, 102J, and 103. These courses, which

### **Programs and Requirements**

may be taken in any order, are prerequisites for all upper-level courses. *No major will be permitted to take an upper-level course without first having completed these three prerequisites.* A grade of C- or better is required to receive major credit in the Department. Each major must select the balance of required courses from the following, taking at least one course from each of the following five areas of the Department:

*American Political System:* POS 120; POS 201; POS 233; POS 256; POS 257; POS 258; POS 261; POS 262; POS 483; POS 484; POS 485

*Comparative Political Systems:* POS 335; POS 336; POS 337; POS 338; POS 342; POS 345; POS 347; POS 350; POS 459

*International Politics:* POS 104J; POS 339; POS 340; POS 349; POS 374; POS 385; POS 389

*Political Theory:* POS 390; POS 391; POS 392

*Public Administration and Public Policy:* POS 210; POS 361; POS 362; POS 365; POS 453; POS 486

Students interested in an international studies major should consult the International Studies Program section in this catalog.

The Department administers an elaborate, carefully structured internship program, open to majors and non-majors alike. Political science majors are especially encouraged to take advantage of the variety of internship opportunities as part of their undergraduate program.

The Political Science Department strongly urges its majors to take courses in economics, history, sociology, and computer science. For a number of majors, courses in geography-anthropology, psychology, philosophy, and communication would also be useful. All political science majors are encouraged to undertake at least one year of university-level foreign language study. Additional language study is recommended for those majors with an interest in comparative or international politics and for those considering graduate school.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the Core curriculum requirements.

Political science courses are normally offered on the following schedule:

Every semester: POS 101J, 102J, 103, 104J, and internships

Yearly: POS 233, 261, 335, 336, 339, 349, 361, 365, 390, 391, 453, 483, 484

Approximately once every two years: POS 120, 201, 210, 257, 258, 262, 337, 338, 340, 342, 345, 347, 350, 362, 365, 374, 389, 392, 459, 486

### *Minor in Political Science*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

Students who wish to complete a political science minor should take the following courses: POS 101J and POS 102J; three additional courses, to be selected so that three of the five fields within the discipline are represented (see above for the listing of courses within each field); and one additional course in political science. A grade of C- or better in POS required courses is necessary to receive credit toward the minor.

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### **POS 101J Introduction to American Government**

This course focuses on the political institutions, processes, behavior, and problems of government in the United States. The national government is emphasized. Key topics include: the Constitution, Supreme Court, Congress, Presidency, political parties, public opinion, and interest groups. Cr 3.

### **POS 102J People and Politics**

This course introduces the student to modern political analysis. It centers on basic questions in the study of political behavior: how people learn about politics, what kind of political system they adopt and support, who does and who does not participate in politics, how political conflict is expressed and resolved in various societies. The course aims at familiarizing the student with major approaches or methods that political scientists have found helpful for understanding real political behavior. Note: POS 101J is not a prerequisite for POS 102J. Cr 3.

### **POS 103 Political Science Research Methods**

An introduction to the way political scientists conceive and carry out research projects. Students will learn the scientific method: how to formulate theories, gather data, and test hypotheses. They will be taught how to find political science sources in the library, how to document sources in footnotes and bibliography, and how to conduct legal research in a law library. Students will eventually complete a major research project. This course is required for all political science majors; they are strongly urged to take it during their first or second semester after entering the Department. Cr 3.

### **POS 104J Introduction to International Relations**

Examination of the relationships of nations in their efforts to deal with each other from differing political, economic, and cultural bases. Cr 3.

### **POS 120 Government and Politics of Maine**

This course concerns Maine State Government, including legislative, executive and judicial programs and powers as exercised within the system of Maine values, political parties, and interest groups. Open to political science majors and as an elective to the student who has an interest in the programs and politics of the state of Maine. No prerequisite. Cr 3.

### **POS 201 Women and Politics**

An introduction to the way gender affects political behavior. Special attention will be given to the social, psychological, and legal factors which, over the years, have inhibited women from engaging in full-scale political activity. Special consideration will also be given to the

way the women's movement and the ideas of feminism have encouraged growing rates of political participation by women. The course will include a thorough review of the different behavior patterns of women and men in politics. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 210 Inter-governmental Relations**

This course examines attempts to bring about social and economic changes through governmental action. Functional and dysfunctional aspects of the political, economic, and social systems are considered. Attempts at intervention are examined through selected case studies in inter-governmental relations. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 233 The American City**

The city in American political life; types of municipal governments; developments in inter-governmental relations; metropolitan area problems; the future of the city. Students will participate in a task force on a selected urban program. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 256 Media and Politics**

The media play an increasingly powerful role in modern political systems. This course examines that power and explains how it came about, while noting those forces that restrict or restrain the media's influence. The symbiotic relationship between politicians and journalists is given special attention. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 257 Political Parties**

Development and present organization and operation of the American party system. Nature and function of major and minor parties, sectionalism, nominating system, presidential and congressional elections, the electorate, finance, interest groups. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 258 Public Opinion and Electoral Behavior**

The role of public opinion in the American political system; definition and measurement; sociological and psychological influences; mass media; linkages to government; the role of public opinion in other nations; voting and presidential elections. A major segment of the course will be devoted to the construction, implementation, and analysis of a public opinion poll. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 261 The American Congress**

The role of the national legislature in American politics is considered. The course undertakes a study of the men and women who reach Congress, the internal norms and procedures on national decision making. Among topics covered are the committee system, leadership patterns in the Senate and the House, the public's influence on Congress, Congress and the Presidency, and Congressional policy-making in selected areas. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 262 The American Presidency**

This course examines the development of the modern presidency; the scope and exercise of presidential decision making in domestic and foreign policy; and standards for assessing presidential performance. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 335 Politics in Western Europe**

This course examines political processes and governmental structures in the nations of Western Europe. It focuses especially on Great Britain, France, and Germany. Among the topics covered are: political parties, elections, voting systems, interest groups, legislative-executive relations, constitutional principles, political elites, leadership behavior, and bureaucracies. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 336 Government and Politics of Russia**

An introduction to Russia in the Soviet and post-Soviet periods. The course proceeds from a description of the classic Leninist model to the emergence of the new political institutions that began to develop in the Gorbachev era, with an analysis of the economic changes, the ethnic revolution, and the social impacts of the post-Leninist era. Prerequisites: POS 101J, POS 102J and POS 103, or permission of the instructor. Cr 3.

### **POS 337 Post-Leninist Politics**

A survey and analysis of those polities (principally East European and Eurasian) that have broken with the classic Leninist model. The course will begin with a description of the former model and will proceed to describe and analyze the political, economic and cultural transformations that are manifesting themselves in these countries. Some consideration may be given to the ideological impact of these developments on world politics. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 338 Canadian Government and Politics**

An introduction to political life in Canada. Primary topics to be covered in the course:

Canadian political culture, voting behavior, the parliamentary system, federalism, political parties, and interest groups. The place of Quebec and French-speaking Canadians within the Canadian political system will be given special emphasis. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor.

Cr 3.

### **POS 339 Russian Foreign Policy**

A survey of Russian foreign policy in the Soviet and post-Soviet periods. Major topics include: the Comintern and the Popular Front; impact of World War II; the emergence of the USSR as a superpower; and post-Stalin modifications. Case studies in contemporary foreign problems. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 340 The Politics of Developing Nations**

An examination of the thrust towards modernization in the Third World. Economic development, relationships with the world community, the role of the military, and various theories about the nature of the relationship between the Third World and the Communist and non-Communist industrial worlds are considered. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. POS 104J is recommended. Cr 3.

### **POS 342 Government and Politics of the Middle East**

This course is designed to examine the political dynamics of the Arab countries of the Middle East and Israel. It will examine the social, ecological historical-cultural, and political-ideological forces influencing political institutions and behavior in Egypt, Iraq, Syria, Israel, Jordan, and Lebanon. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 345 British Politics**

A survey of the contemporary Constitution of Great Britain, the workings of Parliament, the government, and the parties. Principal stress is on the main issues current in British politics. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 347 The Politics of China**

An introduction to the government of the People's Republic of China, 1949-present. Principal topics include: historical and cultural antecedents, Maoism, party and state institutions, socialization and communications, political participation, policy formation and implementation, and change over time. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 349 The Middle East in International Politics**

The crucial issues of international politics—war, revolution, superpower intervention, economic development and terrorism—converge in the Middle East on a regional basis. This course will examine the nature of Mideast regional politics and the foreign policies of the major constituents of the area. The purpose will be to secure an understanding of the conflict between Arab and Israeli worlds, the foundations of tension among the Arab states themselves, and the role played by the superpowers in stabilizing or disrupting the uneasy relationships of the region. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 350 Comparative Political Behavior**

This course provides an introduction to the study of government and politics from a comparative perspective. It is designed to help students gain knowledge of the world's diverse political structures and behavior, and to expose them to a number of approaches to understanding political phenomena in different national contexts. This course will address topics related to political socialization, political culture, regime types, problems of political change and revolution, and the role of the military in the politics of new states. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 361 Public Administration**

An examination of national, state, and local bureaucracies, including their processes of decision making, communications, leadership, internal and external political relationships. A continuing question will be, "How can those institutions be made responsive to the public?" Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 362 Budgets and Politics**

A comparative examination of the budgetary processes of municipalities, states, and nations. The budget is the critical point at which goals intersect with resources. Students who complete the course will have a working understanding of various budgeting techniques (such as PPBS, zero-based budgeting, and incremental budgeting) as well as an appreciation of their effectiveness, their impact on expenditures, and their political consequences. Prerequisites: POS 101J, POS 102J, POS 103, and POS 251, or permission of the instructor. Cr 3.

### **POS 365/ESP 365 Environmental Politics and Policy**

This course provides an introduction to policy making and implementation processes through a survey of current waste disposal issues, air

and water pollution control policies, and management issues in environmental protection. Prerequisites: POS 101J, 102J, and 103, or permission of the instructor. Cr 3.

### **POS 374 United States Foreign Policy**

A detailed evaluation of U.S. foreign policy focusing on such topics as: identification of U.S. policy; governmental agencies and personalities in the formulation and implementation of policy; the role of non-governmental influences. The course is designed to evaluate current policy goals and practices within the context of long-range goals. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 385 Conflict and Security in Contemporary World Politics**

Contemporary threats and challenges to human security and survival often go beyond traditional concepts of "national security." This course focuses on the multiple forms and sources of conflict and insecurity in the modern world system. It analyzes traditional approaches to war and peace in the context of debates over their current adequacy and also examines non-traditional challenges such as economic and environmental security. Prerequisites: POS 101J, 102J, 103 or permission of the instructor. Cr 3.

### **POS 389 International Law and Organization**

Law and order in the international system present a range of problems both similar to and different from law and order in domestic society. Public international law and international organization are attempts to control the violence and anarchy of international society. While these approaches are open to criticism for being ineffective, they cannot be ignored as integral to the international political process. This course will study the history, theoretical significance, and practical implications of attempts to control international political interaction through law and organization. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 390 Political and Social Thought I**

An intensive study of ancient political and social philosophies. A textual criticism of the works of Plato and Aristotle is emphasized. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.

### **POS 391 Political and Social Thought II**

A study of selected political theories from Machiavelli to modern political philosophers. The basic approach is historical, but an attempt is made to relate theories of politics to the environments in which they developed. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. Cr 3.



### **POS 392 American Political Thought**

An examination of American historical and contemporary thinking on a variety of political topics including equality, revolution, liberty, property, war, and individualism. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 395 Independent Study I**

A concentrated program of research or study on a particular subject of the student's selection. The topic will be chosen with the advice and under the direction of a faculty member. Admission by permission of the political science faculty. Cr 3.

### **POS 396 Independent Study II**

A concentrated program of research or study on a particular subject of the student's selection. The topic will be chosen with the advice and under the direction of a faculty member. Admission by permission of the political science faculty. Cr 3.

### **POS 453 Politics of American Policy Making**

An introduction to political analysis of public policy formation and implementation. Policy processes will be examined to see what their study can tell us about American politics, institutions, and political behavior. Particular attention will be paid to "who gets what, when and how" from the United States political system, especially *how* they get it and *why* it works that way. Alternative methods of policy analysis will be applied to selected areas of current interest and critically evaluated. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 459 Psychology and Politics**

This course is an introduction to the psychology of political behavior. It will examine various theories of personality and motivation that explain why people act as they do in politics. It will focus on such questions as: Can "national character" explain political differentiations? What are the psychological causes of political extremism and mass movements? Are there "authoritarian" and "democratic" personalities? What are the needs or drives that lead people into full-time political activity? The bulk of the course will focus on elite, rather than mass, behavior. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

### **POS 470 Electoral Politics Internship**

Provision may be made to gain professional experience in a political party organization, electoral or referendum campaign. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open only to selected students. Cr 6.

### **POS 471 Internship in Private and Semi-Public Organizations**

Provision may be made to gain professional experience in administration and research. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Cr 6.

### **POS 472 Not-for-Profit Internship**

Provision may be made to gain professional experience in a civic, public interest, or other not-for-profit organization. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open only to selected students. Cr 6.

### **POS 473 Municipal Administration Internship**

Provision may be made to gain professional experience in a local government. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars. Readings and research reports are required, focusing on the management, financial control and administration of modern American cities, with emphasis on administration of personnel and finance, the city plan and line functions; public safety, transportation, health, welfare and housing. Cr 6.

### **POS 474 Federal Executive Internship**

Provision may be made to gain professional experience in a department or agency of the federal government located outside of Washington, D.C. The course is open only to selected students. Participation in a seminar is required. Cr 6.

### **POS 475 Congressional Internship**

Provision may be made to gain professional experience in the local offices of Maine's U.S. Congressmen and Senators. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and research reports are required. Cr 6.

### **POS 476 Internship in Washington, D.C.**

Provision may be made to gain professional experience in a congressional office, an agency of the national government, or with a private or semi-public organization in Washington, D.C. The course is open only to selected students; see Department chair for details. Readings and research reports are required. Cr 9.

### **POS 477 State Internship**

Provision may be made to gain professional experience in a department or agency of state government. The course is open only to selected students; see Department chair for details.

Students will meet for a series of internship seminars, for which readings and research reports are required. The state government internship is available under the Maine State Government Internship Program. Cr 6.

**POS 478 State Judiciary Internship**

Provision may be made to gain professional experience in an administrative unit of the state court system. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open only to selected students. Cr 6.

**POS 479 State Legislative Internship**

Provision may be made to gain professional experience in an office of the state legislature. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open only to selected students. Cr 6.

**POS 480 International Affairs Internship**

Provision may be made to gain professional experience in an organization oriented toward international politics, trade, or other trans-boundary affairs. The course is open only to selected students; see Department chair for details. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open only to selected students. Cr 6.

**POS 483 The American Judicial System**

The role of the judiciary in American politics, with emphasis on the United States Supreme

Court. A series of case studies will cover such topics as economic regulation, civil rights, reapportionment, and war powers. Attention will also be given to the impact of judicial philosophies on decision making. Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. Cr 3.

**POS 484 American Civil Liberties**

An analysis of judicial interpretations of Bill of Rights guarantees and their effects on political processes in the United States. Topics include church and state, freedom of speech and press, the rights of the accused and the convicted. Prerequisites: POS 101J, POS 102J, and POS 103 or permission of the instructor. POS 283 is recommended. Cr 3.

**POS 485 Civil Rights and Political Equality**

This course is about belonging to the American political community. Fear of the "other" has produced suppression of immigrants, Catholics, Jews, blacks, Native Americans, women, gays and lesbians, laborers, and the poor. Nevertheless, the ideal of equality has produced much public policy and constitutional law directed at building inclusive community of equals. These policies and laws form the subject matter of the course. Prerequisites: POS 101J, POS 102J, and POS 103, or permission of the instructor. POS 283 is recommended. Cr 3.

**POS 486 Administrative Law**

The law made by and for administrative agencies. Topics include delegation, standing, judicial review, and the merits and demerits of "discretionary justice." Prerequisites: POS 101J, POS 102J and POS 103 or permission of the instructor. POS 283 or 284 is recommended. Cr 3.

# Psychology

*Chair of the Department:* William F. Gayton, 510 Science Building, Portland  
*Professor:* Gayton; *Associate Professors:* Broida, Brown, Hearn, Sytsma, Thornton; *Assistant Professors:* Hutt, Johnson

The Department of Psychology offers a four-year program for students majoring in psychology. It also includes courses for students majoring in allied fields, as well as for students wishing an orientation to the field of psychology as part of their general education. Courses are designed to create an awareness of the fundamental principles of psychology, psychological research, and the means by which psychological knowledge is acquired. The emphasis is upon the scientific inquiry into basic phenomena and principles of behavior, not upon the development of professional skills.

## **Programs and Requirements**

### *Bachelor of Arts in Psychology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 43.

Required Courses:

PSY 101J and 102	General Psychology (3 credits each semester) to be taken as a two-semester sequence
PSY 201D	Statistics in Psychology
PSY 205	Experimental Methodology
PSY 206	Methodology Lab
PSY 220	Psychology of the Lifespan or PSY 223 Child Development
PSY 330	Social Psychology
PSY 333	Psychopathology
PSY 350	Psychology of Learning
PSY 360	Cognitive Processes
PSY 361	Sensation and Perception
PSY 365	Physiological Psychology
PSY 371	History and Systems

Other courses offered by the Department can be taken as electives to complete the 43-hour minimum. PSY 101J and 102 are prerequisites for all additional psychology courses.

In addition, successful completion of the following three non-psychology courses is required for certification as a psychology major. These courses should be completed by the end of the sophomore year:

MAT	Any 100-level Math course (Prerequisite for PSY 201D)
BIO 105K	Biological Principles
	or
BIO 111	Human Anatomy and Physiology I
BIO 211	Human Anatomy and Physiology II (Prerequisite for PSY 365)

Psychology 101J and 102 should be elected no later than the sophomore year by students who plan to major in psychology. All majors are required to elect PSY 201D and PSY 205 no later than their junior year. PSY 201D may be taken concurrently with PSY 102. No grade of D in any psychology course will count toward fulfillment of the major requirement.

All students are reminded that, in addition to meeting Departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the Core curriculum requirements.

The Department recommends that students who wish to take a more extensive program or who plan to enter graduate school elect, in consultation with their major advisor, other courses in psychology and also include study in related fields, such as mathematics, biology, philosophy, sociology, anthropology, and computer science.

Psychology majors who plan to attend graduate school should keep in mind that Graduate Record Examinations must be taken no later than December of their senior year. Students should plan to complete as many psychology courses as possible by the end of the fall semester of their senior year.

### **PSY 101J General Psychology I**

An introduction to the study of behavior as a natural science. Among the topics covered are: method of inquiry, physiological foundations of behavior, sensation and perception, motivation and emotion, learning and thinking. This course is a prerequisite for all courses in the department. Cr 3.

### **PSY 102 General Psychology II**

A continuation of Psychology 101J. It deals with complex psychological processes such as ability testing, personality, conflict, behavior disorders and therapy, and social and industrial behavior. Prerequisite: PSY 101J. Cr 3.

### **PSY 201D Statistics in Psychology**

A general introduction to the techniques of descriptive, predictive, and inferential statistics. Emphasis is placed on measures of central tendency and variability, correlation, hypothesis testing, and simple analysis of variance. Prerequisites: PSY 101J and any 100-level math course or permission of the instructor. Cr 3.

### **PSY 205 Experimental Methodology**

Emphasis on the principles, methods, and techniques of experimental psychology. Applications of general methodology and specific techniques to the design of experiments in behavioral research. Prerequisite: PSY 201D; corequisite PSY 206. Cr 3.

### **PSY 206 Methodology Lab**

This course applies the scientific method to selected areas of experimental psychology. Such areas may include animal learning, physiological, sensation-perception, cognition, social-personality, and developmental psychology. Report writing and interpretation of statistical results will be emphasized. Prerequisite: PSY 201; corequisite: PSY 205. Cr 1.

### **PSY 220 Psychology of the Lifespan**

This is a broad introductory course focusing on the theories, research methods, and the status of scientific knowledge about human development across the lifespan. The course focuses on the interplay of psychological and environmental factors in physical, cognitive, social, and personality development from birth through adulthood. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 223 Child Development**

A broad overview of theories, research methods, and the status of scientific knowledge about human development from infancy through adolescence. The course focuses on the interplay of psychological and environmental factors in changing behavior and shaping individuals' perceptual, linguistic, neurophysiological, social, and cognitive development. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 232 Psychology of Adjustment**

A study of the development of personality patterns, modes of behavior, life styles, and coping mechanisms considered normal in this society. Consideration of their value to individual functioning. Prerequisites: PSY 101J and 102. NOTE: This course does not count toward major credit. Cr 3.

### **PSY 235 Psychology of Women**

Psychology of women and psychological literature relevant to men and women. Some topics include physiological and personality differences between the sexes, sex-role development, role conflict, women and traditional therapy. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 311 Industrial Psychology**

Critical treatment of research methods in personnel selection and evaluation and current theories of individual behavior in complex organizations such as government and business. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 320 Psychology of Personality**

Consideration of current issues and findings in personality. Current research in such areas as locus of control, anxiety, field dependence, interpersonal trust, repression-sensitization, sensation-seeking, authoritarianism, need for achievement, and extroversion. A group research project is required. Prerequisites: PSY 101J and 102. Fall semester only. Cr 3.

### **PSY 324 Psychology of Adolescence**

This advanced course will provide an overview of theories, issues, and research in the study of human development from early adolescence to early adulthood. The interplay of biological and cognitive factors, interpersonal relationships, social structure, and cultural values in shaping the individual's development will be examined. The role of adolescence in both the individual's life course and evolution of the culture as a whole will be considered. Prerequisites: PSY 220 or PSY 223. Cr 3.

### **PSY 325 Psychology of Adulthood and Aging**

This is an advanced course in developmental psychology focusing on the adult portion of the lifespan. The course will provide an overview of the major theories, issues, and research in the scientific study of adulthood. The interplay of biological and cognitive factors, interpersonal relationships, social structure, and cultural values in shaping the individual's development will be examined. Prerequisites: PSY 220 or PSY 223. Cr 3.

### **PSY 330 Social Psychology**

The psychological principles that enter into the social behavior of the individual. Areas of consideration include perception, communication,

attitude formation, interpersonal attraction, and group behavior. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 333 Psychopathology**

The etiology, development, and manifestation of the major forms of mental illness with particular emphasis upon the neuroses and psychoses. Psychological, social, and biological factors that contribute to maladjustment are examined. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 335 Deviations of Childhood**

Intensive readings and discussion of the etiology and manifestation of deviant patterns of behavior and functioning in children. Problems relating to the identification and management of such deviations are considered. Prerequisites: PSY 101J and 102 or permission of the instructor. Spring semester only. Cr 3.

### **PSY 338 Theories of Personality**

A survey of the major contemporary approaches to the study of personality. Different theories are compared, their impact upon current thinking evaluated, and their research contributions assessed. Prerequisites: PSY 101J, 102. Cr 3.

### **PSY 340 Behavior Modification**

An introduction to the principles of operant conditioning with emphasis on the application of operant techniques in educational, correctional, and therapeutic situations. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 343 Psychological Test Theory**

The theoretical and statistical concepts underlying the development of various psychological tests. Individual and group tests of intelligence, personality, aptitude, and interest are examined and evaluated in terms of these concepts. Uses and abuses of psychological tests are considered. Prerequisite: PSY 201D or instructor's permission. Fall semester only. Cr 3.

### **PSY 350 Psychology of Learning**

Experimental findings on the fundamental principles that underlie the acquisition and retention of new behavior. Emphasis is placed on operant and respondent conditioning and the experimental analysis of behavior. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 351 Learning Laboratory**

An introduction to laboratory experiences designed specifically to demonstrate the basic principles of behavior conveyed in PSY 350. Topics include positive reinforcement, extinction, shaping, discrimination, schedules of reinforcement, generalization, and others. Prerequisites: PSY 101J and 102. PSY 350 must be taken either prior to or concurrently with PSY 351. Cr 1.

### **PSY 352 Psychology of Motivation**

A survey of theory, research methods, and experimental findings related to the search for the determinants of human and animal behavior. The course requires a research paper on a topic of interest to the student, and the planning of an experiment growing out of that interest. Laboratory. Prerequisites: PSY 101J and 102. Cr 3.

### **PSY 355 Research in Personality and Social Psychology**

Examination of current research in personality and social psychology. Intensive experience in designing, executing, reporting, and evaluating research in personality. This will include a research project. Prerequisite: 15 hours in psychology or permission of instructor. Cr 3.

### **PSY 360 Cognitive Processes**

A review of contemporary experimental and theoretical work on human information processing. Topics include pattern recognition, memory, attention, decision making, language, problem solving, and creativity. Emphasis will be placed on research methodology and on the interpretation of experimental findings. Prerequisites: PSY 101J and 102 or permission of the instructor. Cr 3.

### **PSY 361 Sensation and Perception**

An examination of perceptual processes and sensory systems. Emphasis is on experimental methodology, research findings, and theoretical interpretations. Prerequisites: PSY 201D and 205. Cr 3.

### **PSY 365 Physiological Psychology**

Basic neuroanatomy, neurophysiology, and endocrinology, and the relationships between nervous system functioning and behavior. Physiological analysis of sensory function, motivation, and learning. Prerequisites: BIO 105K or BIO 111 and BIO 211; PSY 101J, 102. Cr 3.

### **PSY 366 Drugs, Mind, and Behavior**

The physiological and behavioral effects of drugs are examined in light of current research. Also considered are theories relating to the use/abuse of drugs, tolerance, addiction, and drug interactions. Prerequisites: PSY 101J and one semester of biology. Cr 3.

### **PSY 371 History and Systems of Psychology**

A survey of the history of psychological thought from its beginnings in Greek philosophy to modern times. Special attention will be given to the influence of philosophy and natural science on the development of contemporary psychology. The course concludes with a survey of the major systems. Prerequisite: 15 hours in psychology and/or instructor's permission. Cr 3.

### **PSY 380 Psychology and the Law**

This course represents an intensive study of the role of psychology in the legal process with particular emphasis upon the insanity defense, competency to stand trial, and involuntary commitments. Also considered are those psychological factors that relate to such topics as jury selection and deliberation, eyewitness testimony and credibility, and courtroom strategy. A term paper is required of all students. Prerequisites: PSY 101J, 102, 333 and/or permission of the instructor. Spring semester only.

Cr 3.

### **PSY 385 Contemporary Psychotherapies**

A survey of contemporary psychotherapies including Gestalt therapy, logotherapy, bioenergetics, reality therapy, transactional analysis, and rational-emotive therapy. Seminar format. This course is designed for advanced psycholo-

gy majors planning to go on to graduate school in clinical or counseling psychology. Prerequisite: permission of the instructor. Fall semester only.

Cr 3.

### **PSY 390 Selected Topics in Psychology**

A critical in-depth investigation of one of various topics and issues in different areas of psychology (e.g., experimental, social, clinical, child-developmental, etc.) Each student is expected to complete a research project on the topic for the semester. Consult the Psychology Department for topics offered. Prerequisite: permission of the instructor.

Cr 3.

### **PSY 400 Research in Psychology I**

This course is open to qualified majors in psychology who wish to conduct research projects. With permission of Department chair.

Cr 3.

## **Social Work**

*Chair of the Department:* Vincent E. Faherty, 316 Masterton Hall, Portland  
*Professors:* Faherty, Romanyshyn (emeritus), Steinman (emeritus); *Associate Professors:* Deprez, Kreisler (emeritus), Lazar, Rich, Siebold, Wagner; *Field Work Coordinator:* Richfield

The program in social work prepares the student for the professional practice of social work at the entry level.

The social work curriculum of the Department is accredited by the Council on Social Work Education at the baccalaureate level. Students who receive a degree from an accredited undergraduate program in social work may apply to selected graduate schools of social work for advanced standing. If accepted, the student may complete an M.S.W. degree program in approximately one year instead of two.

Upon entering the University and declaring a social work major, students will meet with the chairperson of the Social Work Department to review the degree requirements, will be given an admissions packet of materials, and will be assigned to a faculty advisor.

To assure consistency and avoid confusion, it is important that social work majors meet with their advisors as early in their education as possible. Advising in the Social Work Department is a mutual process of exploring career objectives, reviewing Departmental requirements, designing the best possible combination of required courses and electives, determining proper course sequencing, and facilitating a productive relationship between the student and the Department.

Admission to the field work component of the curriculum (SWO 411, SWO 412) occurs after a formal application is submitted, reviewed, and accepted. Criteria for admission to field work include: academic achievement; attainment of junior status; quality of application essay; and suitability for the profession of social work.

Contact the Department office for further information and application materials for field work.

During the field work year, each student is placed in a community social service agency approved by the Social Work Department. Placements begin only in the fall semester and continue throughout the year. By the end of the spring semester, each student will have completed 480 hours of field work. A large number of social and community agencies in the Greater Portland area and in cities and towns of southern Maine have been most generous in their cooperation with the Department and in making available field instruction

resources including supervision for students of the Department. All students should refer to Departmental guidelines governing field work for more information and directions.

The students of the Department have organized a Social Work Student Association. The organization seeks to facilitate communication between students and faculty, ensure student involvement in Departmental deliberations, provide for professional growth, and respond to issues and problems in the community. Student representatives attend faculty meetings and serve as advisory members on the Department's peer and curriculum committees.

## **Programs and Requirements**

### **Bachelor of Arts in Social Work**

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 41.

The major in social work consists of 41 credits in required social work courses. In addition, 40 credits of foundation courses must be completed in other departments. Some of these foundation courses may also be used to satisfy the Core curriculum requirements as appropriate.

#### **Required Social Work Courses**

SWO	101J	Introduction to Social Welfare
SWO	201	Introduction to Social Work
SWO	301	Methods of Social Work Practice I
SWO	333	Social Work Research I
SWO	334	Social Work Research II
SWO	370	Human Behavior in the Social Environment
SWO	401	Methods of Social Work Practice II
SWO	402	Methods of Social Work Practice III
SWO	411	Field Work I
SWO	412	Field Work II
SWO	450	Social Welfare Policy
SWO	Elective	Any 300- or 400-Level Social Work Elective

*Note:* Any introductory statistics course (MAT 120D, PSY 201D or SOC 307D) is a prerequisite for SWO 333.

Required Foundation Courses in Other Departments (Substitutions for, or waivers of any of these courses, require the written approval of a student's advisor.)

ENG	100C	College Writing
ECO	201J	Principles of Macroeconomics
BIO	100K	Biological Basis of Human Activity (or BIO 101K Biological Foundations, or
BIO	105K	Biological Principles I)
BIO	102K	Biological Experiences (or BIO 106K Laboratory Biology I)
POS	101J	Introduction to Government
PHI		(Any Core-designated philosophy course)
PSY	101J,	General Psychology I and II
	102	
SOC	100J	Introduction to Sociology
SOC	371	Sociology of Minorities

Four other advanced level sociology and/or psychology courses, selected in consultation with the student's advisor, are required. At the student's option, HRD 333J Human Growth and Development is acceptable for one of these four courses; any SWO elective is acceptable for another of these four courses.

Students are required to achieve a grade of C or better in all required social work and required foundation courses; and attain a cumulative grade point average of 2.33 at the point of application for fieldwork.

**SWO 101J Introduction to Social Welfare**

Provides an introduction to the institution of social welfare through a review of social welfare history; the values and philosophy in America of treating the poor, the ill, and others in need; contemporary approaches to social policy; and possible alternative models of social welfare. Cr 3.

**SWO 201 Introduction to Social Work**

An introduction to the practice of social work focusing on the nature of intervention, the roles and functions of social workers in the delivery of services in various settings, and beginning practice skills. The course enables a student to make a more informed decision about his or her entry into the profession. Field observation by student required. Prerequisite: Social work major or permission of instructor; SWO 101J. Cr 3.

**SWO 266 Concept of Self and the Handicapped Person**

To enhance effective interaction and communication with handicapped persons, issues are examined from the perspectives of society and of the individual (handicapped and non-handicapped). Topics include basic human needs and self-image, independence-dependence, anger-frustration, failure, the power of guilt and shame. All students participate in sensory exercises. Cr 3.

**SWO 301 Methods of Social Work Practice I**

This course is an introduction to the basic concepts and skills of interviewing and assessment within the framework of a strengths perspective. Emphasis will be placed on the integration of ethics and the process of reflection within a generalist practice of social work. Prerequisites: SWO 101J, 201. Cr 3.

**SWO 333 Social Work Research I**

A study of the methods of social work research for social policy and social work practice. The course emphasizes both quantitative and qualitative research processes with the goal of enabling the student to be competent as a "practitioner-researcher." Prerequisites: SWO 101J; any introductory statistics course (MAT 120 or PSY 201D or SOC 307D). Cr 3.

**SWO 334 Social Work Research II**

Students apply research methods to actual social problems or issues relevant to the profession of social work. An individual research project is completed, and class members act as a research support group. Prerequisites: SWO 101J, any introductory statistics course (MAT 120D, PSY 201D or SOC 307D); SWO 333. Cr 2.

**SWO 364 International Social Welfare**

A study of social welfare programs in advanced industrial and in developing societies, in market and non-market economies and in democratic and authoritarian political systems. Prerequisite: SWO 101J. Cr 3.

**SWO 367 Relating Professionally to Homosexuality**

Provides an understanding of varying concepts of homosexuality. Employs recent theoretical, empirical and clinical literature to assess attitudes toward homosexuality. Examines motivation and skills to achieve constructive interaction between the professional and the homosexual. Prerequisite: junior standing or permission of instructor. Cr 3.

**SWO 370 Human Behavior in the Social Environment**

This course examines the ways in which normative and predictable human behavior throughout the life cycle is mediated by gender, race, age, sexual preference, class and culture. The implication of this knowledge for social work practice will be explored. Prerequisites: SWO 101J, 201; PSY 101J, 102 and introductory course in biology. Cr 3.

**SWO 378 Professional Practice with Older People**

Enhances skills in human service practice with older people. Analyzes the sources and manifestations of both healthy and problematic aging. Applies concepts drawn from the behavioral and social sciences, and from clinical and community practice. Translates a developmental rather than a custodial view into everyday direct service. Prerequisite: junior standing or permission of instructor. Cr 3.

**SWO 380 Child Welfare**

A study of the policy and practice issues affecting children in current society, including implications for social services and institutional change. Prerequisite: SWO 101J or permission of the instructor. Cr 3.

**SWO 381 Social Work with Children**

This course explores the application of social work skills and knowledge in professional interactions with children and adolescents within the context of social welfare agencies. The focus is on the skills involved in treatment as well as knowledge about family and community systems. Prerequisites: SWO 101J, SWO 201, or permission of the instructor. Cr 3.

**SWO 385 Sexual Abuse of Children and Adolescents**

This course will examine the application of social work skills and knowledge to the issue of sexual abuse of children and adolescents. An



up-to-date review of the latest research and clinical findings will be presented. Attention will be given to a variety of issues as well as the value dilemmas presented by client situations. Prerequisite: junior standing or permission of the instructor. Cr 3.

**SWO 388 Substance Use and Abuse: Alcohol and Other Drugs**

Examines the use and abuse of psychoactive substances: street drugs, prescription drugs, alcohol, caffeine, and nicotine. Consideration of the history, pharmacology, and physical and psychological affects of each substance. Exploration of prevention and treatment models, with special reference to those in use locally. Prerequisite: junior standing or permission of instructor. Cr 3.

**SWO 397 Department Projects**

Individual or group projects, requiring independent study or field work in some aspect of social welfare, to be selected by students in consultation with faculty. Prerequisite: Department permission and application prior to registration. Cr var.

**SWO 401 Methods of Social Work Practice II**

This course is a continuation of Methods of Social Work Practice I. It explores the contextual nature of generalist social work practice within a strengths perspective. Emphasis will be placed on the processes of engagement, assessment, and intervention with individuals, families, and groups. Family systems, group, and crisis models of intervention will be presented. This course must be taken concurrently with SWO 411 (Field Work I). Fall semester only. Cr 3.

**SWO 402 Methods of Social Work Practice III**

Examines the dilemmas of professional human service workers in bureaucratic systems and the effects of professionalization and the bureaucracy on consumers. Develops a range of methods aimed at better meeting client need with particular reference to strategies of organiza-

tional change and community organization. Class discussions and assignments are based on field work experiences. Prerequisites: SWO 301, SWO 401, and SWO 412 (concurrent).

Cr 3.

**SWO 410 Management of Social Services**

This course provides a general introduction to the major theories, principles, and methods of management of social service agencies in the public, voluntary, and private sectors. Current and emerging issues facing the social welfare system in the United States, such as accountability, marketing, volunteerism, etc., are introduced. Prerequisite: senior standing or permission of instructor. Cr 3.

**SWO 411 Field Work I**

For social work majors: a required internship of 16 hours per week in approved agency settings, designed to relate social work theory to practice under professional supervision. Fall semester only. Must be taken as the first in a two-course sequence. Prerequisites: SWO 101J; 201; 401 (concurrent). Cr 6.

**SWO 412 Field Work II**

A continuation of SWO 411. Spring term only. Must be taken as the second in a two-course sequence. Prerequisites: SWO 301, SWO 401, SWO 411, and SWO 402 (concurrent). Cr 6.

**SWO 450 Social Welfare Policy**

A critical examination of social welfare institutions, the social problems and social needs to which they are addressed, and the policy decisions which determine the organization and direction of social welfare programs. Prerequisites: ECO 201J, POS 101J, and SWO 301 or permission of advisor. Cr 3.

**SWO 456 Issues in Social Welfare and Social Work**

A seminar for social work majors that addresses significant issues confronting the social welfare system and the profession. Prerequisite: social work major or permission of instructor. Cr 3.

# Sociology

*Chair of the Department:* Peter M. Lehman, 120 Bedford St., Portland  
*Professor:* Monsen; *Associate Professors:* Anspach, Fullam, Lehman;  
*Assistant Professors:* Anderson, Laz

Sociology is the study of social life and the social origins and consequences of human behavior. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from the divisions of race and social class to the shared beliefs of a common culture, from the sociology of work to the sociology of sport. An undergraduate major in sociology offers valuable preparation for careers in social work, social research, politics, public administration, law, business, and education.

The major also provides an excellent basis for graduate study in sociology, law, criminology, and social work.

## *Alpha Kappa Delta*

Juniors and seniors who have demonstrated an interest and involvement in sociology, who have completed at least four sociology courses at USM, and who have accumulated at least a 3.0 grade point average in sociology courses at the University are eligible for nomination to Alpha Kappa Delta, the national sociology scholarship and honor society.

## *Student Involvement*

Student involvement is a high priority for the Department. Students are involved in the research projects of the Department as well as the everyday administrative and advising life of the Department. Representatives of the Sociology Students' Association are involved in all Departmental activities and decisions as full voting members of the Department. These student representatives are elected by members of the Student Association each April, although vacancies sometimes occur during the year. Students who are interested in this kind of involvement are encouraged to talk to Departmental faculty.

## *Internships*

The Department of Sociology offers a strong and on-going internship program. The expanded program helps place students in community agencies and organizations, including neighborhood organizations and a variety of agencies dealing with youth services. Credit internships actively seek to bring together student academic work and community involvement. Students interested in an internship placement are encouraged to meet with Professor Fullam, internship coordinator.

## *Colloquia*

The Department of Sociology sponsors a colloquium series that seeks to bring together faculty and students in active discussion around a variety of topics. Several colloquia are scheduled each semester with faculty, students, or visiting scholars making presentations that serve as the focus of discussion. A schedule of current colloquia is available from the Departmental office.

## *Requirements for the Baccalaureate Degree*

All students are reminded that, in addition to meeting Departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the College of Arts and Sciences, and the University's Core curriculum.

## *Major Credit and Grade Policy*

There are prerequisites for most major credit courses. See the Departmental course listings for particulars. Courses to be taken for major credit at other institutions must be approved in advance. Grades of C or better must be achieved in all courses for major or minor credit. Courses taken pass/fail are not acceptable.

### *Bachelor of Arts in Sociology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

#### Required Courses (18 hours)

SOC	100J	Introduction to Sociology
SOC	210E	Critical Thinking About Social Issues
SOC	300	Sociological Theory
SOC	301	Methods of Social Research
SOC	307D	Statistical Methods
SOC	312	Inequality and Power

#### Six 300-level courses from among the following (18 hours)

SOC	315	Self and Society
SOC	316	Sociology of Gender
SOC	318	Childhood and Society
SOC	320	The Sociology of Literature
SOC	330	Sociology of the Family
SOC	331	School and Society
SOC	333	Sociology of Health
SOC	334	Sociology of Religion
SOC	336	Law and Society
SOC	340	Sociology of Crime
SOC	352	Demography
SOC	354	Comparative Political Ideologies
SOC	355	Politics and Society
SOC	357	Organization: Individual and Society
SOC	358	Sociology of Women's Work
SOC	360	Sociology of Aging
SOC	371	Sociology of Minority Groups
SOC	374	Mental Health and Illness
SOC	375	Sociological Perspectives on Deviance
SOC	380	Topics in Sociology
SOC	389	Law and Society in England
SOC	390	Individualized Instruction I
SOC	391	Individualized Instruction II
SOC	395	Internship
SOC	400	Punishment and Social Control

### *Minor in Sociology*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18.

The minor is intended for those students with a major other than sociology but who wish to broaden their educational experience in a formally designated program of study. The minor program may be of particular interest to students in the Schools of Nursing and Business, the College of Education, and non-social science disciplines in the College of Arts and Sciences.

Twelve credit hours are required courses; the remainder are electives. Required Courses: SOC 100J; SOC 210E; SOC 300; SOC 301; sociology electives\*\*.

\*\*Each student minoring in sociology elects a minimum of two upper-division courses from those offered by the Department. These courses, chosen in consultation with the student's minor advisor, reflect the preprofessional or other interests of the student.

Supplementary information is published each semester by the Sociology Office to assist students in planning their course schedules. The information includes a summary of major courses, listings and descriptions of special courses, and general information for majors.

To obtain these publications, or for other information, write to: Chair, Sociology Department, University of Southern Maine, 96 Falmouth Street, Portland, Maine 04103 or telephone: (207) 780-4100.

### **SOC 100J Introduction to Sociology**

The fundamental concepts, principles, and methods of sociology; analyzes the influence of social and cultural factors upon human behavior; evaluates effect of group processes, social classes, stratification, and basic institutions on contemporary society. Offered each semester. Cr 3.

### **SOC 210E Critical Thinking About Social Issues**

Designed to follow Introduction to Sociology, this course further develops students' skills of critical analysis through the application of sociological principles to current social issues. The course uses popular media as well as sociological materials. Examples of issues which may be examined are: poverty, health care, homelessness, aging, drugs, violence, bureaucracy, white collar crime, and changing gender roles. Prerequisite: Successful completion of SOC 100J with a grade of C or better or permission of the instructor. Cr 3.

### **SOC 300 Sociological Theory**

Critical evaluation of selected classical models of the social world. Includes consideration of the foundations of sociological thought, the content of major classical theories and theory groups, and the socio-cultural settings within which they developed. Prerequisites: one 200-level SOC course or permission of instructor. Offered fall semesters. Cr 3.

### **SOC 301 Methods of Social Research**

Conceptualization and research design, data collection and analysis, logic of inquiry and research techniques. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 307D Statistical Methods for Social Research**

Emphasis on the uses of statistics in the organization, interpretation, and presentation of research data. Measures of association and correlation; testing of hypotheses, probability and sampling. Prerequisite: one 200-level SOC course and completion of mathematics proficiency. Offered spring semesters. Cr 3.

### **SOC 312 Inequality and Power**

A systematic assessment of structured social inequalities in wealth, power, and status in industrialized societies. Emphasis is placed on assessing social policies employed to reduce, ameliorate, or sustain such inequalities. Prerequisite: one 200-level SOC course or permission of instructor. Offered spring semesters. Cr 3.

### **SOC 315 Self and Society**

This course explores the emergence of self as an intersection of biography, history, and social structure. Emphasis is placed on the relation-

ship between intimate definitions of the individual and the social structure within which these definitions are constructed. Topics include but are not limited to the power of social groups, charisma, normality and the politics of experience, the social construction of childhood, and the social construction of gender. Prerequisite: One 200-level SOC course or permission of instructor. Cr 3.

### **SOC 316 Sociology of Gender**

This course examines gender as a social, cultural, and historical construction which occurs within and reinforces sex/gender stratification. With particular attention paid to education, the family, and work, we will explore sex/gender stratification—its sources and dynamics; historical and contemporary forms; and implications for human lives, history, and society. Prerequisite: one 200-level SOC course or permission of instructor. Offered fall semesters. Cr 3.

### **SOC 318 Childhood and Society**

This advanced course examines the social construction of childhood. Topics include but are not limited to socio-historical study of the evolution of childhood, the child in art and literature, socialization and gender as process, structured inequality and children's life chances, cross-cultural comparisons of childhood, and U.S. family policies for the welfare of children. An applied component allows students to integrate theory and observations of the day to day life of children. Prerequisites: one 200-level SOC course and junior or senior standing. This course is limited to 25 students. Cr 3.

### **SOC 320 The Sociology of Literature**

This course will introduce students to the possibilities and problems generated by the sociological study of literature which will be addressed as a practice, a produce, and an institution. The course will consider the theoretical and empirical work on the complex relationships between literature and society and cultural meaning and value. It will also address specific questions relating to the production, distribution, consumption, and preservation of literature such as what is literature, who makes it, who consumes it, and what makes it last. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 330 Sociology of the Family**

A sociological approach to the study of the family, including the structure of social relationships, the modern American family as a social institution, the cultural background of the family, and the impact of social change. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 331 School and Society**

This course examines the social organization of schooling and its social and political context in contemporary American society. Topics include the emergence of public education, role of state and community in shaping its nature, problems of access and equality, the organizational nature of schools, teaching as a profession, and alternatives to public education. Attention is given to public debates concerning the conditions, limits, and possibilities of schooling. Comparisons with educational systems of other countries are included when appropriate. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 333 Sociology of Health**

Analysis of socio-cultural influences on health and illness, with an emphasis on health, illness, and sickness as social identities. Particular attention is given to the organization of health-related occupations and health services in cross-cultural perspective, and to the ethical and policy-related issues raised by different models of organization. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 334 Sociology of Religion**

Review and critique of classical and contemporary sociological interpretations of religion, with emphasis on the changing character of religious expression in the twentieth century. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 336 Law and Society**

An examination of the interrelationships between law and society, focusing on law, custom, and morality as well as law in relation to social goals. Specific examples of how law functions in the context of the social structure will be used to highlight the major theoretical models used traditionally in this area. Prerequisite: one 200-level SOC course or permission of instructor. Offered fall semesters. Cr 3.

### **CRM 340 Sociology of Crime**

Through an analysis of law creation, policing, and court operation, this course examines how crime is socially created. This will be accomplished using three sociological approaches: structural analysis, symbolic interaction, and ethno-methodology. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 352 Demography**

Fertility, mortality, and migration as they impact on every aspect of life whether political, economic, or social and the reciprocal impact of these on the population variables. Specific applications include: the relationship of popula-

tion growth and aging; population growth and the status of women; population growth and urbanization; food and population policy; population growth and economic development; population characteristics and life changes; population characteristics in marketing; crime and the age structure; fertility changes and the labor market and the impact of immigration. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 354 Comparative Political Ideologies**

After a presentation and comparison of 20th-century political ideologies and their origins, the influence of these value systems on political action and on current sociological paradigms will be emphasized. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 355 Politics and Society**

Possibilities and limitations of political democracy in industrial, bureaucratic society. Capitalism and socialism, their underlying ideologies, and the resulting political structures will be contrasted. Emphasis on current American politics with comparative perspective when relevant. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 357 Organization: Individual and Society**

This course examines the nature of modern organizations and their impact on individuals and society. Several theoretical perspectives on organization will be examined to gain an understanding of organizational life and organizations' role in modern society. In addition, we will consider dilemmas faced by individuals interacting with organizations as functionaries (for example, workers, government employees, teachers, police) and as clients. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 358 Sociology of Women's Work**

This course will introduce students to theoretical and empirical literature on women's work in the paid labor force, on their unpaid labor in the home, and on the relationship between these two kinds of "women's work." The course emphasizes the diversity of women's work and the interconnections among race-ethnicity, class, and gender through a detailed examination of professional women, blue-collar women, and "pink-collar" employees. Additional topics include occupational segregation, earnings differentials, poverty, law and public policy, and labor militancy. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

### **SOC 360 Sociology of Aging**

This course will introduce students to the "graying of America" and to the processes and

problems associated with growing old in America. Using a dual focus on aging of the individual and on age as a structural feature of any society, the course will provide an analytical framework for understanding the interplay between human lives and social structure. The increased importance of the aged as a social, political, and economic force in society will also be discussed. Prerequisite: one 200-level SOC course or permission of instructor. Cr 3.

**SOC 371 Minority Groups**

Considers the factors that produce and maintain structured social inequality based on minority status, and the social consequences of such inequality. Includes analysis of selected minorities both in the U.S. and cross-culturally. Prerequisite: one 200-level SOC course or permission of instructor. Offered fall semesters.

Cr 3.

**SOC 374 Mental Health and Mental Illness**

An examination of theories of the "causes" of "madness" and the treatment of the mentally ill. Particular attention on the influence of culture on the definition of illnesses, the relationship between social factors and illness, and the social context of treatment. Prerequisite: one 200-level SOC course or permission of instructor. Offered spring semesters.

Cr 3.

**SOC 375 Sociological Perspectives on Deviance**

The origin and nature of socially disapproved behavior. Analysis of societal interpretations of and responses to the deviant. Prerequisite: one 200-level SOC course or permission of instructor. Offered spring semesters.

Cr 3.

**SOC 380 Topics in Sociology**

Specially developed occasional courses exploring a variety of theoretical and substantive areas within the field. Offered as resources permit. These courses may be counted as electives toward completion of the major. Prerequisite: one 200-level SOC course or permission of instructor.

Cr 3.

**SOC 389 Law and Society in England**

This course is an intensive three-week summer course taught at the University of Sheffield, England. The course permits students to engage in the cross-cultural study of law by examining another country's legal system and how that country handles legal problems. The course consists of seminars on law, the sociology of law, and the British legal system. Tours of British justice institutions including Crown and

Magistrates Courts will also be included. Seminars will be taught in England by an interdisciplinary team from the faculty of law at Sheffield University. A member of USM's Sociology Department who participates in the tour will offer seminars before departure and will evaluate student performance. Prerequisite: one 200-level SOC course or permission of instructor.

Cr 3.

**SOC 390 Individualized Instruction I**

Independent reading and/or research for juniors and seniors. Apply to Department chair. Prerequisite: 15 hours in sociology.

Cr var.

**SOC 391 Individualized Instruction II**

Continuation of independent reading and/or research for juniors and seniors. Apply to Department chair. Prerequisite: SOC 390.

Cr var.

**SOC 395 Internship**

The course is designed to provide work/action experience and insight into professional roles in a variety of community agencies and organizations. The primary objective of the internship is the application of the perspectives, substantive knowledge, and methods of social science to a particular organizational setting. Thus, the internship can be understood as a participant observation experience within the context of social science research. It is primarily designed as a field experience/reflection opportunity for upper-level social science majors with substantive background/coursework in the area of internship placement. In addition to field placement, students are expected to meet for a series of internship seminars, for which readings and reports will be required. Offered spring semester. Contact Departmental internship coordinator for details.

Cr 4 to 6.

**SOC 400 Punishment and Social Control**

This course distinguishes different forms of punishment and types of social control, including penal punishment and therapeutic control. It traces the development of punishment as a definitive style of discipline in modern society. Specific emphasis is given to the development of the modern prison and asylum. These are framed as responses to both the necessity of social control and to crises generated by social disorder and political instability. Illustrations are drawn from cross-national data and the social control of deviants in Maine. Prerequisites: SOC 100J and either SOC 210 or CRM 215J or permission of instructor.

Cr 3.

# Theatre

*Chair of the Department:* Susan Picinich, Russell Hall, Gorham  
*Professors:* Kading, Rootes, Stump; *Associate Professors:* Picinich, Power, Steele; *Assistant Professors:* Kent, Kilroy; *Technical Director:* Fauver; *Costumer:* Kinne

The Theatre Department offers a four-year program leading to a B.A. degree in theatre. An undergraduate degree in theatre offers valuable preparation for careers in the theatrical activities on an educational or professional level, as well as other nonrelated disciplines.

All students are reminded that, in addition to meeting departmental requirements for a major, they must also meet the requirements of the College of Arts and Sciences as well as the Core curriculum requirements.

## **Programs and Requirements**

### *Bachelor of Arts in Theatre*

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 64.

Students with the intent to major must complete the following courses during their first year:

THE	120	Acting I: Stage Movement
THE	121	Acting II: Stage Voice
THE	130-01	Theatre Workshop
THE	130-02	Theatre Workshop
THE	134F	Production Management
THE	135F	Stagecraft
THE	136F	Stagecraft Lab
THE	150H	Play Analysis

All majors or intended majors are required to take a half unit of theatre workshop (THE 130, 131, 132, 133) per semester.

Theatre students who fail to maintain a 2.5 GPA in theatre courses and a 2.0 overall GPA will not be allowed to participate in any main stage productions in either an acting or technical capacity (except those lab duties or course requirements related to coursework) until the student has raised his/her grades to the required level.

The above GPA standards are required for graduation and a grade of C- or better is required in all theatre courses.

Students are encouraged to meet with the faculty or staff whenever questions arise or problems occur.

The following courses are required:

THE	120	Acting I: Stage Movement
THE	121	Acting II: Stage Voice
THE	130	Theatre Workshop (to be repeated once)
THE	131	Theatre Workshop (to be repeated once)
THE	132	Theatre Workshop (to be repeated once)
THE	133	Theatre Workshop (to be repeated once)
THE	134F	Production Management
THE	135F	Stagecraft
THE	136F	Stagecraft Lab
THE	139	Make Up
THE	150H	Play Analysis
THE	170F	Public Speaking or THE 270 Oral Interpretation
THE	220	Acting III: Scene Study
THE	225	Directing
THE	230	Designing for the Performer
THE	231G	Costuming I
THE	232	Costuming Lab
THE	330	Lighting Design or THE 331 Scene Design
THE	351	Dramatic Literature and Theatre History I: Origins to 15th Century
THE	352	Dramatic Literature and Theatre History II: Renaissance to 1800

THE	353G	Dramatic Literature and Theatre History III: Romantic to World War II
THE	354	Dramatic Literature and Theatre History IV: Absurdist to Post-Modernism

At the end of the sophomore year, students, after discussion with the faculty, must select an area emphasis by taking 9 additional units selected from one of the following tracks. Each track may have additional requirements (e.g., auditions or portfolios).

*Acting track:* select units from the following: Acting IV, Acting V, Acting VI, Dance, Professional Audition and Marketing Techniques, Acting for the Camera, Topics in Acting and Performance, Creative Dramatics.

*Literature track:* Playwriting, Journalistic Drama Criticism, Advanced Playwriting, Topics in Dramatic Literature and Theatre History (may be repeated)

*Design/Technical track:* Lighting and/or Scene Design, Advanced Costuming, Topics in Design, Topics in Dramatic Literature and Theatre History, Theatrical Drafting

*Vocal Arts track:* Oral Interpretation and/or Public Speaking, Reader's Theatre, Advanced Oral Interpretation, Forensics, Professional Audition and Marketing Techniques, Creative Radio Performance

*General track:* 9 units of upper division theatre courses to be chosen as advised.

### *Media Arts Concentration*

Theatre majors with an interest in radio, television, or film may elect to follow the Media Arts Concentration in place of any of the Departmental tracks. This 22 unit concentration is offered jointly with the Communication Department and is available with either an On Camera or Production emphasis. Admission to this concentration is limited and an audition and/or interview is required. Specific requirements and course descriptions are listed in the Communication Department section of this catalog.

### *Theatre Department Production Requirements*

The Theatre Department requires each major to participate in Theatre Department functions by completing Theatre Workshop courses (University course credit) and Theatre Department projects (Department credit only). Credit for these may be earned separately or concurrently according to Departmental guidelines. Each theatre major must enroll in unit of Theatre Workshop each semester (maximum of 4 units). Theatre Workshop courses require, in part, participation in an approved Department project with a point value of 8 or more.

Theatre Department projects are assigned point values (relative to their complexity) by the Theatre Department. Theatre majors must accrue 64 points of project credit for graduation. These projects must be completed in a variety of discipline areas. To insure this variety, project points must be distributed as follows: *acting area*—24 points minimum; *technical area*—24 points minimum.

A listing of approved projects and their specific point values is available at the Theatre Department office.

In the event that a student repeatedly auditions or requests technical area positions for Department productions but is not given a role or a crew position, this effort will be considered a good faith effort on the part of the student and may fulfill the acting or technical area minimum point distribution requirement.

Presence at all strikes for all productions in which the students participate whether as a crew or cast member is required.

### *Student Participation*

Theatre succeeds in direct proportion to the quantity and quality of the group effort, and so it is not surprising that the USM Theatre program thrives on the participation of all majors, minors, and other interested students.

Theatre is a strict and demanding discipline; the time dedicated to production and rehearsal is extensive. Therefore, the Theatre Department urges stu-



dents to select non-Departmental theatre activities prudently and with consideration for their overall academic and production commitments. The Department also strongly recommends that theatre majors consult their advisors in order to integrate the outside project into their overall program.

### *Minor in Theatre*

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 21.

The courses required are THE 134F, THE 150H, THE 120 or THE 220 on permission of instructor and four other courses chosen in consultation with a Theatre Department advisor in accordance with the interests of the student.

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#### **THE 101G Introduction to Drama**

A lecture-discussion course designed to provide students with a conception of the development of the theatre and its literature. The course consists of a survey of Greek, medieval, Elizabethan, French neoclassic, and 18th, 19th and 20th-century theatre and drama. Cr 3.

#### **THE 102F Acting: Performance**

This course will introduce core students to theatre through the eyes of the performer. The student will gain a basic understanding of theatre as a performing art through lecture, discussion and performance of scenes. Improvisational exercises, relaxation techniques and character analysis strategies will be included. Students will also attend campus and area theatrical productions and be required to write critical reviews of the performances. Cr 3.

#### **THE 103F Contemporary Dance I**

Contemporary Dance I is designed for beginning dancers with no formal dance training or no dance training in recent years. This class introduces basic contemporary dance skills and vocabulary. The class is divided equally into two areas of study. Physical and technical development are learned through strengthening and stretching exercises and body isolations. Proper body alignment is stressed for the most energy-efficient and injury-free movement both in and out of class. Dance phrases are designed to teach rhythmic and locomotor skills. Equal time will be devoted to studying choreographic techniques wherein students will learn how dances are created by creating their own. *The Art of Making Dances* by Doris Humphrey, plus selected writings by more contemporary choreographers, will be used in the class. The class will be expected to attend several local dance performances during the semester. Cr 3.

#### **THE 120 Acting I: Stage Movement**

This is a practicum course designed to introduce students to basic elements of the creative process of acting. Students will be introduced to body awareness, methods of relaxation and physical elongation, exploration of creative process, freeing the vocal mechanism, elementary stage combat and improvisation. Course

culminates with student presentation of a performance piece that has been developed through improvisation. No prerequisite. Cr 3.

#### **THE 121 Acting II: Stage Voice**

This is a practicum course designed to continue exploring the body/voice relationship through the use of improvisation with emphasis on text. Prerequisite: THE 120. Cr 3.

#### **THE 130 Theatre Workshop I**

A course designed to give students practical application of theatre practices in the fields of acting, design, scene construction, costuming, properties, lighting, management, and directing. A laboratory course. The course may be repeated for credit. Cr 0.5.

#### **THE 131 Theatre Workshop II**

A continuation of THE 130. Prerequisite: THE 130. The course may be repeated for credit. Cr 0.5.

#### **THE 132 Theatre Workshop III**

A continuation of THE 131. Prerequisite: THE 131. The course may be repeated for credit. Cr 0.5.

#### **THE 133 Theatre Workshop IV**

A continuation of THE 132. Prerequisite: THE 132. The course may be repeated for credit. Cr 0.5.

#### **THE 134F Production Management**

A survey/lab course designed to familiarize students with the organizational procedures of the theatre production process. Major areas of study include stage management and theatre production management with some reference to video and film production management. Additional topics include the running of crews in properties and wardrobe, operation of sound and lighting equipment, and production scheduling. This course includes a crew requirement for a University production. Cr 3.

#### **THE 135F Stagecraft**

A lecture/discussion/lab course in technical theatre and related topics relevant to technical direction. Specific areas of emphasis will

include: theatre/stage terminology and organization; scene shop practices and use of shop tools; basic methods of construction, rigging, and moving scenery for the stage. The lecture portion of the course will be supplemented by actual construction, painting and mounting of a major University theatre production. (Concurrent enrollment in THE 136F Stagecraft Lab required.) Cr 3.

### **THE 136F Stagecraft Lab**

A lab course allowing practical application of theory discussed in THE 135F. (Concurrent enrollment in THE 135F required.) Cr 1.

### **THE 139 Make-up**

The course will emphasize the fundamentals of design and application of theatrical make-up. Specific areas of study will include the use of painted highlight and shadow to alter facial features and the actual application of make-up, giving the student the opportunity to practice realistic and abstract make-up techniques. An additional 30 hours of production work will be required of each student providing the opportunity to apply classroom techniques to the actual performance experience. Cr 3.

### **THE 150H Play Analysis**

Representative dramas for the stage are read, discussed and criticized using the Aristotelian elements of plot, character, thought, diction, music, and spectacle as analytical tools. Prerequisite: ENG 009. Cr 3.

### **THE 170F Public Speaking**

An introductory course in the art of public discourse. Primarily a lecture-performance course, students will learn the basics of informative, persuasive, and argumentative speaking, as well as the processes of problem-solving and informative discussion. Cr 3.

### **THE 171 Intercollegiate Forensics**

A course designed to acquaint students with intercollegiate competition. Students will compete at various forensic tournaments throughout the East. Permission of instructor is required. Cr 1.

### **THE 172 Intercollegiate Forensics**

A continuation of THE 171. Cr 1.

### **THE 173 Intercollegiate Forensics**

A continuation of THE 172. Cr 1.

### **THE 174 Intercollegiate Forensics**

A continuation of THE 173. Cr 1.

### **THE 203F Contemporary Dance II**

Contemporary Dance II is for a more experienced dance student. Expertise in executing basic dance skills (proper alignment, parallel

and turned out positions, slides, triplets) and knowledge of dance vocabulary are assumed. Through practicing more complicated movement exercises and dance patterns students will increase their technical dance skills and understanding of kinesiology. Entire dances or portions of contemporary choreography will be taught in this class. Choreographic work will consist of movement character development using the effort-shape system of movement analysis. This study of movement qualities will be taken from Cecily Dell's work in *A Primer for Movement Description*. Students will be expected to attend several dance performances during the semester. May be repeated once for credit. Prerequisite: THE 103F or permission of instructor. Cr 3.

### **THE 220 Acting III: Scene Study**

This is a practicum course designed to introduce students to basic skills of stage movement and characterization through the use of scene work. The course evolves from simple storytelling through monologues to scenes. The emphasis is on internal preparation through developing a role as well as on external techniques for projecting that role. Prerequisites: THE 120 and 121 or permission of instructor. Cr 3.

### **THE 221 Acting IV: Contemporary Methods**

This is a practicum course focusing on methods of personalization, linear objective and plot objective, which are all tools used to explore characterization. Emphasis will also be given to preparation for audition. Prerequisite: THE 220 or permission of instructor. Cr 3.

### **THE 224 Acting for the Camera**

This course will give students practical experience acting in videotaped dramatic scenes, industrial role playing, commercials, and narration. The course will emphasize the difference between stage and video/film acting techniques. Cr 3.

### **THE 225 Directing**

This course is designed to train students in theatrical organization and rehearsed techniques. It encompasses composition, picturization, movement, and rhythm. Some practicum is involved. Prerequisite: THE 150H or permission. Cr 3.

### **THE 226 Professional Audition and Marketing Techniques**

This course will give students practical experience in and information related to seeking employment as an actor. The audition section will include simulations of stage and related film and video situations. The marketing section will provide strategies in the professional actor's most time consuming endeavor: looking for work. Cr 3.

### **THE 230 Designing for the Performer**

This course offers the student an opportunity to explore the process of creating an environment for the performer, incorporating elements of scenic, costume, lighting, and audio design. Coursework includes the presentation of multi-media design projects, supplemented by a practicum as an assistant designer for one major Theatre Department play or media arts production. Cr 3.

### **THE 231G Costuming**

The course will consist of an introduction to costuming, the techniques and basic materials used in design and construction of an effective production. Costume design will be studied in terms of defining basic elements of line, color, and texture; fulfilling script requirements and analyzing characters; and coordinating with other designers. Sewing skills and rendering techniques will be introduced. The lecture portion of the course will be supplemented by actual construction and mounting of a University theatre production. Concurrent enrollment in THE 232 Lab required. Cr 3.

### **THE 232 Costuming Lab**

The course is a laboratory session that allows practical application of theory discussed in THE 231G. Concurrent enrollment required in THE 231G. Cr 1.

### **THE 233 Practicum in Stage Lighting**

A course focusing on the practical application of contemporary stage lighting technology and on the implementation of a lighting plot. Prerequisite: Stagecraft or permission of instructor Cr 1.

### **THE 235 Theatrical Drafting**

A lecture/discussion/lab course in basic theatrical drafting/graphic practices relating to theatrical construction and design techniques. Concurrent enrollment in THE 236 Stagecraft Lab required. Prerequisite: THE 135F or instructor consent. Cr 3.

### **THE 236 Stagecraft Lab**

A lab course allowing practical application of theory discussed in THE 235. Concurrent enrollment in THE 235 required. Cr 1.

### **THE 250 Playwriting**

A lecture-practicum course designed to acquaint the student with playwriting principles. Emphasis is placed on the one-act play form. Students will be required to complete a series of creative exercises culminating with writing of a one-act play. Prerequisite: THE 150H. Cr 3.

### **THE 270F Oral Interpretation**

A course in the assimilation and analysis of lit-

erary material (poetry, prose, drama) with emphasis on the techniques used in reading written material aloud to an audience. Designed to stimulate an understanding and responsiveness to literature and to develop the ability to convey to others, through oral reading, an appreciation of that literature. Cr 3.

### **THE 271 Creative Dramatics**

Study of problems in introducing young people to theatre as a total art form. Course to include the development of children's plays through improvisation as well as traditional children's literature. Work with children in various community settings will provide practical experience for the student. Cr 3.

### **THE 272 Creative Radio Performance**

A study in the creation and performance of material designed to be performed exclusively through the medium of radio. Cr 3.

### **THE 320 Acting V: Styles**

This course will introduce the student to a variety of acting styles, ranging from Greek tragedy to Shakespeare and contemporary. Advanced skill training in stage voice and movement will be incorporated into each style. Prerequisite: THE 220. Cr 3.

### **THE 321 Acting VI: Playwright Focus**

This is a practicum course for advanced acting problems, making an in-depth study of the plays of one specific playwright (e.g., Chekhov, Ibsen, O'Neill). Emphasis will also be given to preparation for audition, using material from the specific playwright. Prerequisite: THE 220. Cr 3.

### **THE 330 Stage Lighting**

Introduction to stage lighting design, elements of electricity, color, light sources, instrumentation, and control systems. Students will participate in lighting projects in practicum. Prerequisites: THE 135F, THE 150H. Cr 3.

### **THE 331 Scene Design**

Lecture and practicum in stage scenic design. Emphasis on the visual art and drafting of designs. Prerequisites: THE 135F, THE 235, and THE 150H or permission of instructor. Cr 3.

### **THE 332 Advanced Costuming**

This course will continue the study of costume design begun in THE 231. The focus of class work and projects will be on specific problems encountered in costuming for the theatre. Lecture material and design assignments will be drawn principally from the twentieth century, though other time periods may occasionally be used. Students will work to improve rendering techniques as well as analytical skills.

Concurrent enrollment in Theatre Workshop will provide a laboratory component to classroom study. Prerequisite: THE 231G or permission of the instructor. Cr 3.

### **THE 336 Theatre Management**

Investigation of educational and professional theatre management roles, including: managing director; business manager; box office manager; publicity director; house manager. Practicum required. Cr 3.

### **THE 350 Advanced Playwriting**

A course for those who have taken THE 250 or have already written several plays. Emphasis will be placed on writing a full length play for possible production by the University. A better-than-average competence in writing dialogue is imperative. Prerequisite: THE 250 or permission of the instructor. Cr 3.

### **THE 351 Dramatic Literature and Theatre History I: Origins to 15th Century**

A study of the development of theatre and drama from its origins through the medieval period, covering ancient Greek, Roman, and Oriental theatre and drama. Representative authors include Sophocles, Euripedes, Plautus, Seneca, the Wakefield Master, and Chikamatsu. Critics include Aristotle and Horace. Prerequisite: THE 150H for majors, ENG 100C or ENG 101C for non-majors. Cr 3.

### **THE 352 Dramatic Literature and Theatre History II: Renaissance to 1800**

A study of theatre and drama from the Renaissance, Neo-classical and Restoration periods to 1800. Representative authors include Machiavelli, de Vega, Shakespeare, Jonson, Racine, Moliere, and Goldoni. Critics include Castevetro, Chapelain, Dryden, Johnson and Diderot. Prerequisite: THE 150H for majors, ENG 100C or ENG 101C for non-majors. Cr 3.

### **THE 353G Dramatic Literature and Theatre History III: Romantic to World War II**

A study of theatre and drama from Romantic period to World War II, covering early realist and anti-realist theatre. Representative authors include Goethe, Hugo, Ibsen, Chekhov, Pirandello, Shaw and O'Neill. Critics include Wagner, Zola, Bergson, Brunetiere, and Nietzsche. Prerequisite: THE 150H for majors, ENG 100C or ENG 101C for non-majors. Cr 3.

### **THE 354 Dramatic Literature and Theatre History IV: Absurdist to Post-Modernism**

A study of theatre and drama from the post-war Absurdist and Brechtian Epic theatres to the present day. Representative authors include Brecht, Beckett, Genet, Williams, Miller, Shepard, Stoppard, and Shaffer. Critics include Artaud, Brecht, Esslin, Schechner, and Eco.

Prerequisite: THE 150H for majors, ENG 100C or ENG 101C for non-majors. Cr 3.

### **THE 355 Journalistic Drama Criticism**

This course will provide the student with a comprehensive analysis of the role of the writing critic in professional, community, educational, and amateur theatre. Stress will be placed upon development of a workable writing style. A minimum of five plays will be seen from which reviews will be generated. Prerequisite: THE 225 or by permission. Cr 3.

### **THE 370 Advanced Oral Interpretation**

A continuation of THE 270F. Cr 3.

### **THE 371 Reader's Theatre**

A study of principles and techniques utilized in the performance of a literary work in the Reader's Theatre style. Emphasis is on providing new insights into the material through oral performance. Cr 3.

### **THE 372 Speaking to the Camera**

This is an advanced public speaking and performance course introducing the student to the most common types of video presentations. Student performances of scripted speeches will be videotaped and evaluated based on content, delivery, and style. Cr 3.

### **THE 373 Advanced Public Speaking**

A continuation of public speaking with particular emphasis on performance in extemporaneous, impromptu, and manuscript persuasion. Students will analyze the work of peers and attend and critique area public speeches. All written and performance work will be critiqued by the instructor in a lecture/discussion format. Cr 3.

### **THE 421 Topics in Acting and Performance**

An intensive study of a particular acting or performance technique chosen at the discretion of the instructor in accordance with his or her expertise and interests. May be repeated as topics vary, for a maximum of 9 credits. Prerequisite: THE 221 or permission of instructor. Cr 3.

### **THE 430 Topics in Design**

A seminar in advanced design practices and a continuation of THE 330 and/or 332. The course will stress improving design and presentation skills by developing and presenting design projects. The design project will involve theatrical drafting, perspective sketching, rendering and model making techniques as required in the areas of specialty. Students will be required to work in 2 of the 3 areas of theatrical design: costume design, lighting design, or scenery design. In addition, historical styles will be surveyed in a lecture/discussion format. This discussion will include the impact of

social and political attitudes as well as physical style and how these aspects may be applied to contemporary design. Prerequisite: any two of the following: THE 330, 331, or 332. Cr 3.

#### **THE 451 Topics in Dramatic Literature and Theatre History**

An intensive study of a particular playwright, group, movement, or historical period chosen at the discretion of the instructor in accordance with his/her expertise and interests. May be repeated as topics vary for a maximum of 9 credits. Prerequisite: THE 150H for majors, ENG 100C for non-majors. Cr 3.

#### **THE 490 Independent Study**

Students should contact the Department regarding information for independent study.

#### **THE 491 Project I**

Investigation of special topics, or execution of special projects that fall within the purview of theatre. Students may select an interior intra-departmental committee of three professors to approve, assist, and oversee the project. Prerequisites: junior and senior standing; precise definition of project and unanimous per-

mission of committee. Students must obtain rules for this course from the department chairman. Credit hours arranged.

#### **THE 492 Theatre Internship**

Students will assume a full one-semester internship with a professional theatre or Reader's Theatre Company. Students will be involved in management, acting, directing, or technical theatre as a member of the company. Each student will be assigned a faculty advisor who will make a biweekly evaluation of ongoing work. Participants will be required to keep a diary and/or portfolio to be reviewed by the faculty of the Theatre Department at the conclusion of the internship. All creative work done by the student will be evaluated by the advisor and at least one other, or if possible, all members of the department. Prerequisite: permission of the Theatre Department. To be arranged. Cr 3-15.

#### **THE 493 British Tour**

Students in this course will rehearse an original or scripted production which will be performed at USM and then transported to England for presentation at King Alfred's College in Winchester. Cr 3.

# College of Education and Human Development

*Dean:* Richard E. Barnes

*Director of Professional Development Center:* George C. Lyons; *Director of Center for Educational Policy, Applied Research and Evaluation:* David L. Silvermail; *Director of Southern Maine Partnership:* Lynne Miller; *Director of Student Affairs and Administration:* Jane Andrews

The College of Education and Human Development prepares individuals for careers in teaching and related human service professions. In addition, the College offers courses and programs of study to students from all schools and colleges in the University in the areas of educational theory and application, human development, athletic coaching, and English as a Second Language (ESL).

Continuing efforts to strengthen undergraduate offerings are guided by several priorities which reflect commitments of the College of Education and Human Development:

*Partnerships and learning communities:* encouraging collaboration and the development of communities of learners within the College, the University, and southern Maine;

*Reflective inquiry:* emphasizing the importance of asking questions and strengthening skills in reflection, analysis, decision making, and evaluation;

*Respect for all learners:* preparing students to live and work effectively in a culturally diverse world;

*Performance-based assessment:* emphasizing results-based outcomes highlighting the interplay between theory and practice.

These priorities provide the basis for planning and development activities in the College of Education and Human Development. They help create a rich and dynamic environment for students committed to lifelong learning and quality service.

## Department of Teacher Education

*Chair:* Nancy E. Harriman, 500 Bailey Hall, Gorham

*Associate Professors:* Austin, Bouchard, Colucci, Davis, Harriman, Kimball, Kissen, Major, Morrill; *Assistant Professors:* Caron, Howick; *Professors Emeriti:* Costello, Neuberger

It is widely recognized that the effective reform of America's schools depends on educated citizens and qualified teachers who come to teaching with a deep knowledge of their disciplines, a concern for the active engagement of all students in learning, and an avid interest in honing their skills of collaborations as they join their colleagues at work in schools.

To support the development of such citizens and teachers, the Department of Teacher Education has developed courses and a minor in educational studies for those with a general interest in education as well as for those who want to become teachers. Students who want to prepare for a career in teaching at the elementary, middle, or secondary levels apply to the College of Education and Human Development's Extended Teacher Education Program (ETEP), which offers coursework and experiences at the undergraduate and post-baccalaureate levels.

More specifically, undergraduates at USM who wish to become certified teachers through the College of Education and Human Development's ETEP follow these steps:

1. Undergraduate level
  - a. Complete a baccalaureate degree with a major in the liberal arts, in a subject related to the desired teaching level and subject;
  - b. Complete the 18-credit minor in educational studies (*recommended, but optional*)

2. Post-baccalaureate level
  - a. Complete the one-year certification program (approximately 33 graduate credits);
  - b. Complete the master of science in education degree (*optional*—an additional 18-credits taken over two years during the summer and on weekends)

Additional information about the Extended Teacher Education Program follows.

## The Extended Teacher Education Program

### Programs and Requirements

#### Undergraduate

At the undergraduate level students who are interested in teaching should pursue an undergraduate major and degree appropriate to their teaching goals. Prospective secondary school (grades 7-12) teachers should acquire a firm grounding in one of the liberal arts disciplines currently taught in public schools. Prospective middle school (grades 5-8) teachers should acquire depth in at least two disciplines. Students interested in teaching at the elementary school level should pursue a relevant major along with courses in mathematics, science, social science, and English. Students are encouraged to explore appropriate majors by contacting the College of Education and Human Development's Admissions and Advising Office.

In addition to completing all of the liberal arts courses required for teacher certification in the desired area, prospective teachers should seriously consider taking the minor in educational studies as a way of exploring their interest in and commitment to teaching.

#### Minor in Educational Studies

The minor in educational studies is open to students in all majors within the University. The minor highlights topics in the areas of human development, teaching as a career, learning and schooling. The minor consists of 18 credits:

EDU	100	Exploring Teaching as a Profession
EDU	200	Education in the United States
EDU	210	Theoretical Foundations of Learning
EDU	300	Educational Media and Technology
HRD	333J	Human Growth and Development

Three EDU elective credits approved by the program advisor.

(A course fee is assessed in EDU 300.)

To gain admission to the minor in educational studies, students must be in good standing at the University with a cumulative grade point average of 2.5 or above. Applicants must complete and submit a signed application for the minor. These forms are available in the College of Education and Human Development's Admissions and Advising Office, 118 Bailey Hall, Gorham campus.

Qualified USM undergraduates who successfully complete the minor in educational studies, including as an elective EDU 390, Topics in Education: Portfolio Development, have preferred status for admission to the post-baccalaureate level of the program. These qualified applicants also have exclusive access to the early admission process. The deadline for applying for early admission is October 1.

For more information on the minor in educational studies, contact the College of Education and Human Development's Admissions and Advising Office.

#### Post-baccalaureate

**Certification Year** The certification year phase of the Extended Teacher Education Program (ETEP) is for those students who are well-suited and committed to a career in teaching. This innovative phase consists of one year (approximately 33 graduate credits) of intensive study and teaching in one of the program's professional development school sites in southern Maine. Students form a cohort group within the school site, working and learning

with mentor teachers and University faculty at the site. Successful completion of this year-long program and the meeting of other state requirements, including passing the National Teachers Examination, leads to initial teacher certification in the state of Maine.

USM students apply to the certification year of ETEP as they near completion of their undergraduate studies. The deadline for application is January 16 for the program beginning the following August. Applicants must indicate their desired teaching level and subject(s) at the time of their application. The possible options include elementary (grades K-8), middle (grades 5-8), and secondary (grades 7-12). The possible subject areas at the middle and secondary levels are English, foreign language, mathematics, physical science, life science, and social studies.

Outstanding USM undergraduates who are minoring in educational studies and have already completed the course in portfolio development may apply by October 1 of their senior year for early admission to the certification year. Early admission is conditional upon successful completion of undergraduate degree requirements and the minor in educational studies prior to the start of the certification year.

Students who complete a relevant academic major and the minor in educational studies with distinction are strong candidates for admission into the certification year. Completion of the baccalaureate degree and the minor in educational studies does not, however, guarantee admission to this phase of ETEP.

### *Master of Science in Education*

Upon successful completion of the certification year and the meeting of specific criteria, which include the submission and acceptance of a portfolio, students will be invited to continue work toward completion of requirements for the master of science in education degree (an additional 18 graduate credits). This final phase of ETEP, which involves two years of part-time summer and weekend study, is designed to further students' learning and professional development and to provide support during the first years of teaching.

## **Other Opportunities for Teacher Certification**

### *Art Education*

The Department of Art in the College of Arts and Sciences offers a concentration in art education for bachelor of fine arts candidates who wish to teach art. Information on this program is included in the Department of Art section of this catalog.

### *Music Education*

The Department of Music in the College of Arts and Sciences offers a teacher preparation program leading to a bachelor of music in music education degree. Information on this program is included in the Department of Music section of this catalog.

### *Technology Education*

The Department of Technology in the School of Applied Science offers teacher preparation programs leading to baccalaureate degrees in technology education and applied technical education. Information on these programs is included in the Department of Technology section of this catalog.

## **Certificate Program in Athletic Coaching**

This program is designed to prepare students for certain coaching responsibilities in schools and recreational programs. The curriculum includes an introduction to the organization and administration of athletics as well as practical work in assisting coaches in selected sports. Attention is also given to the prevention and care of the most common injuries occurring in athletic programs. Students may take courses as electives or as part of the certificate program.

A certificate will be presented to students completing the minimum 15-hour program. In addition, the proper notation will be made on the student's official transcript indicating proficiency in the area of athletic coaching as determined by the certificate program.



### Course of Study in Athletic Coaching (15-credit program)

#### Required

PHE	203	Athletic Training
PHE	302	Coaching Philosophy and Fundamentals
PHE	314	Organization and Administration of Athletics
PHE	391	Field Experience in Coaching

#### Electives

PHE	209	Officiating Basketball
PHE	210	Officiating Field Hockey
PHE	211	Officiating Soccer
PHE	212	Officiating Baseball/Softball
PHE	303	Coaching Basketball, Philosophy and Methods
PHE	311	Coaching Soccer, Philosophy and Methods
PHE	312	Coaching Football, Philosophy and Methods
PHE	315	Coaching Field Hockey, Philosophy and Methods
PHE	316	Coaching Volleyball, Philosophy and Methods
PHE	318	Coaching Gymnastics, Philosophy and Methods
PHE	335	Coaching Baseball and Softball, Philosophy and Methods
PHE	389	Advanced First Aid and CPR

## English as a Second Language

The College offers language courses specifically designed for students whose first language is not English:

ESL	100C	College Writing (fall)
ESL	398	English as a Second Language: Higher Intermediate
ESL	401	English as a Second Language: Advanced Grammar and Writing (fall and spring)
ESL	402A	English as a Second Language: Advanced Reading, Writing, and Vocabulary I (fall)
ESL	403A	English as a Second Language: Advanced Reading, Writing and Vocabulary II (spring)

For more information on these ESL courses contact Bart Weyand, program coordinator, 101 Payson Smith Hall, Portland.

### **EDU 100 Exploring Teaching as a Profession**

An exploration of teaching as a professional career through field-based experiences and faculty-led seminars. Cr 3.

### **EDU 200 Education in the United States**

An examination of issues and problems in education and schooling in the United States from social, historical, political, and philosophical perspectives. Cr 3.

### **EDU 210 Theoretical Foundations of Learning**

An examination of theories of learning and their application to motivation, concept development, classroom management, methodology, and evaluation. Cr 3.

### **EDU 300 Educational Media and Technology**

An examination of educational media and technology with special emphasis on school-based developments and applications. Cr 3.

### **EDU 336 Children's Literature**

A survey of children's literature with special

emphasis on the selection of appropriate books for children from preschool through the elementary school years. Cr 3.

### **EDU 390 Topics in Education**

A seminar devoted to the examination of a single topic selected because of its significance to the field of education and schooling. Topics may change each semester. One of the sections of EDU 390 concentrates on the portfolio development process. Cr 3.

### **ESL 100C College Writing**

This section of College Writing (ENG 100C) is intended for non-native speakers of English only. The course focuses on the analysis of professional and student writing as a way of sharpening awareness of how to use the English language effectively for use in the academic classroom. The writing assignments encourage students to apply the principles discussed in class to their own work. This course cannot be used to satisfy a humanities requirement. Prerequisite: ESL 402A, ESL 403A, or writing proficiency. Cr 3.

**ESL 398 English as a Second Language:  
Higher Intermediate**

A higher-intermediate to advanced-level English language course for non-native speakers of English which focuses on the reading, writing, speaking, and listening skills necessary for college survival and includes the appropriate grammar and vocabulary. Offered on a semi-intensive basis during the summer, this course will benefit students who need higher level academic English skills or who wish to polish their language in general. Prerequisite: instructor permission. Cr 3.

**ESL 401 English as a Second Language:  
Advanced Grammar and Writing**

An advanced level English language course for non-native speakers of English focusing on building a stronger foundation of grammatical skills which will aid students in producing more natural and accurate writing skills in the English language. Through a series of grammatical exercises, meaningful drilling, both written and oral, and analysis of the structure of English, students will become better used to producing more complex sentences and short essays. Prerequisite: instructor's permission. Cr 3.

**ESL 402A English as a Second Language:  
Advanced Reading, Writing, and  
Vocabulary I**

An advanced level English language course for those whose first language is not English. The course is designed to help students produce grammatically accurate, well-constructed, coherent English, both in the written and spoken form. Based on the writing process, students will write and rewrite paragraphs and essays drawn from topical and academic readings, works of fiction, and class discussion. This course is a substitute for ENG 009 and a prerequisite for ENG 100C or ESL 100C. Prerequisite: instructor's permission. Cr 3.

**ESL 403A English as a Second Language:  
Advanced Reading, Writing, and  
Vocabulary II**

This advanced level English language course is designed for non-native speakers who have either taken ESL 402A and need further work in language skills upon recommendation of the instructor, or who need academic English language skills in preparation for ESL 100C or ENG 100C. Much of the work will be on the development of paragraphs into short essays which are grammatical and coherent. Additional focus will be on vocabulary extension and use of idiom. This course is a substitute for ENG 009 and a prerequisite for ENG/ESL 100C. Prerequisite: instructor's permission. Cr 3.

**HRD 333J Human Growth and Development**  
Please refer to the course description in the Department of Human Resource Development section that follows. Cr 3.

**PHE 102 Independent Activities**

This course will allow students to earn credit for doing physical education activities outside the University. Students may select any activity which can be done independently or may enroll in a structured program, such as Y classes, aerobic dance classes, etc. Instructor permission required. Cr 1 or 2.

**PHE 103 Physical Fitness**

An aerobic fitness class utilizing any of a number of aerobic activities such as jogging, aerobic dance, calisthenics, etc. These activities are designed to place an aerobic demand on the participants and help promote a general improvement in cardiovascular fitness. Cr 1.

**PHE 198 Physiology of Health Fitness**

The purpose of this course is to provide the student with a scientific background in exercise physiology and health concepts in order to develop and maintain a lifetime program of high level physical fitness and quality health. Cr 3.

**PHE 203 Athletic Training**

Care and prevention of athletic injuries; the use of proper field equipment, support methods, therapeutic modalities, pharmacology in athletics, and training techniques. Cr 3.

**PHE 209 Officiating Basketball**

Study and discussion of the rules with limited practical experience in the techniques of officiating basketball. Course is designed to prepare student for the National Federation Examination. Cr 2.

**PHE 210 Officiating Field Hockey**

Study and discussion of the rules of field hockey as well as practical experience in the techniques of officiating. Practical and written tests will be given. Opportunity to become a rated official. Cr 2.

**PHE 211 Officiating Soccer**

Study and discussion of the rules of soccer as well as practical experience in the techniques of officiating. Opportunity to become a rated official. Cr 2.

**PHE 212 Officiating Baseball/Softball**

Study and discussion of the rules of baseball and softball as well as practical experience in the techniques of officiating. Practical and written tests will be given. Opportunity to become a rated official. Cr 2.

**PHE 221 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Winter)**

Instruction in the basic and enabling skills in the art of safe mountain travel and winter camping. Course content includes cross-country skiing, snowshoeing, map and compass reading and shelter building. The Outward Bound experience strongly emphasizes leadership development, interpersonal communication, team-building, and group problem-solving. Fee course. 5-day program. Cr 2.

**PHE 232 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Winter)**

Instruction in the basic and enabling skills in the art of safe mountain travel and winter camping. Course content includes cross-country skiing, snowshoeing, map and compass reading and shelter building. The Outward Bound experience strongly emphasizes leadership development, interpersonal communication, team-building, and group problem-solving. Fee course. 10-day program. Cr 3.

**PHE 242 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Summer)**

The course has two major parts: (1) training period and (2) final expedition. During the training period students are instructed and participate in sail theory, navigation, seamanship, first aid, rock climbing, camping skills and environmental awareness. The final expedition is designed to allow the student an opportunity to demonstrate the application of each newly learned skill. All students will participate in a solo, (an experience of self-isolation in a natural environment, designed for reflection into yourself). In addition, the mission of Outward Bound is to develop respect for self, care for others, responsibility to the community and sensitivity to the environment. Fee course. 10-day program. Cr 3.

**PHE302 Coaching Philosophy and Fundamentals**

This course covers various approaches to planning, organizing, and implementing practice sessions in preparation for athletic competition. The psychological and emotional aspects of coaching are also investigated. One segment of the course will be concerned with society's view of coaching as illustrated by today's literature. Cr 3.

**PHE303 Coaching Basketball, Philosophy and Methods**

Emphasis on the methods of teaching and coaching basketball. Offense and defense,

coach-player relationship, team selection, planning of practice sessions, game situations, and the fundamental skills will be areas of concentration. Cr 3.

**PHE 304 Health and Physical Education for Elementary Teachers**

A basic course for prospective teachers to develop knowledge and skills to acquaint them with essentials for sound program planning in the various areas of health and physical education. Topics include teaching methods and materials, curriculum, class organization, and lesson planning and evaluation in health and physical education. Observation and practical experience with children will be included. Cr 3.

**PHE 310 Experiential Learning in Outdoor Education Ropes/Initiative Course Construction and Use**

Participants can expect to gain first-hand knowledge and experience through actual participation in all phases of initiative course construction and operation. Of primary importance will be the understanding one receives from the experience for constructing a similar course in his/her own educational program.

**Mountaineering**

Designed to gain knowledge in technical mountaineering and to improve capabilities in technical rock climbing.

**Orienteering**

Designed to gain knowledge in expedition planning and route finding. Cr 3.

**PHE 311 Coaching Soccer, Philosophy and Methods**

Emphasis on the methods of teaching and coaching soccer. Offense and defense, player-coach relationship, team selections, planning of practice sessions, and game situations will be areas of concentration. Cr 2.

**PHE 312 Coaching Football, Philosophy and Methods**

Emphasis on the methods of teaching and coaching football. Offense and defense, player-coach relationship, team selections, planning of practice sessions, and game situations will be areas of concentration. Cr 2.

**PHE 314 Organization and Administration of Athletics**

This course covers the principles and practices of athletic administration as related to middle schools, junior and senior high schools. Cr 3.

**PHE315 Coaching Field Hockey, Philosophy and Methods**

Analysis of the techniques and methods of

coaching field hockey with emphasis on stick work, team strategy, and practice organization.

Cr 2.

**PHE 316 Coaching Volleyball, Philosophy and Methods**

Fundamentals of individual skills, team strategy, practice organization, and team play are emphasized.

Cr 2.

**PHE 318 Coaching Gymnastics, Philosophy and Methods**

Analysis of skills fundamental to competitive gymnastics with emphasis on techniques of coaching floor exercise, uneven parallel bars, vaulting, and balance beam. Judging skills are also developed.

Cr 2.

**PHE 325 Workshop in Experiential Education—Leadership and Learning Center at Wolfe's Neck Farm**

This course is designed for those who wish to provide service to groups using an adventure based programming model and are looking to enhance their facilitation skills. The workshop covers group activities and initiatives, including specific technical skills for ropes course events. Emphasis is on developing the necessary leadership skills to conduct an adventure based program. Fee course.

Cr 3.

**PHE 335 Coaching Baseball and Softball, Philosophy and Methods**

Emphasis on the methods of teaching and coaching baseball and softball. Offense and defense, player-coach relationship, team selection, planning of practice sessions, and game situations will be areas of concentration.

Cr 2.

**PHE 343 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Semester Internship Program)**

The course has two major parts: (1) training period and (2) final expedition. During the training period students are instructed and participate in sail theory, navigation, seamanship, first aid, rock climbing, camping skills and environmental awareness. The final expedition is designed to allow the student an opportunity to demonstrate the application of each newly learned skill. All students will participate in a solo, (an experience of self-isolation in a natur-

al environment, designed for reflection into yourself). In addition, the mission of Outward Bound is to develop respect for self, care for others, responsibility to the community and sensitivity to the environment. Fee course. 76-day program.

Cr 6-12.

**PHE 353 Teacher Training—Experiential Education**

This course is designed to blend the process and interdisciplinary approach of experiential education with more traditional forms of learning. This non-traditional methodology will include teaching methods (safety) and materials, (construction) curriculum design, group organization, lesson planning and evaluation. Observation, peer teaching, and practical experience with groups will be included. Fee course.

Cr 6.

**PHE 389 Advanced First Aid and CPR**

This course will cover the topics prescribed by the American Red Cross and the advanced first aid and emergency care course, including respiratory emergencies, artificial respiration, wounds, poisoning, water accidents, drugs, burns, emergency childbirth, emergency rescue and transfer, and CPR. Successful completion of the course requirements will lead to: Advanced Red Cross First Aid and CPR certification.

Cr 3.

**PHE 391 Field Experience in Coaching**

Practical field work in a coaching area. The student will be assigned as an assistant coach in a sport for a season. Supervision, evaluation, and guidance of the student will be provided by a staff member who is responsible for that coaching area. Prerequisites: PHE 203, PHE 302, PHE 314. Restricted to students in coaching certificate program.

Cr 1-3.

**PHE 398 Independent Study in Physical Education**

Provides students who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest, bearing upon it previous course experience and emerging with an intellectually sound, coherent synthesis reflecting a high caliber of performance. Prerequisite: permission of instructor.

Cr 1-3.

# Department of Human Resource Development

*Chair:* C.E. VanZandt, 400 Bailey Hall, Gorham

*Professors:* Brady, Callender, Sutton, Van Zandt; *Associate Professors:* Atkinson, Steege, Stevens, Vess

The Department offers undergraduate courses that support the programs within the College of Education and may serve as electives for programs outside the College. Please see the graduate catalog for information on graduate programs offered.

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## **HRD 333J Human Growth and Development**

This course introduces developmental theory and research which encompasses the entire life span. Emphasis will be on prenatal development through adolescence, with an overview of adult development. A multi-disciplinary view of human development will be taken which considers stability as well as change throughout the life cycle. The interaction of hereditary and environmental factors will be considered in studying physical, cognitive, and psychosocial development. Prerequisite: sophomore level standing.

Cr 3.

## **HRD 334 Psychology of the Self**

An exploration into the development of the self, exploring self-knowledge and personal growth. Approaches cover the self alone, the self in society, and the self in the world. Learning techniques will include readings, small group interaction, autobiographical exercises, guided meditation, dream work, and simulated vision quests.

Cr 3.

## **HRD 335 Educational Psychology**

Basic principles, techniques, and research in educational psychology. A special consideration given to the learning process, perception, motivation, individual differences, and measurement, with reference to the facilitation of effective teaching and learning. Prerequisite: upperclass status.

Cr 3.

## **HRD 339 Adult Learning and Development**

This course explores various areas of adulthood, including topics in adult learning theory and adult development. Topics covered include: how adults learn and the motivation to learn, life cycle theories and maturity myths, learning styles and experiential learning. Learning is facilitated through a framework of small group interaction. Participants are encouraged to share ideas and experiences of adulthood and to determine how relevant themes apply to their own lives.

Cr 3.

# School of Business

*Dean:* John M. Burt

*Assistant to the Dean:* Sally Paterson; *Academic Counselors:* Sharon L. Bannon, Cynthia A. Young; *MBA Program Director:* Ray Neveu; *Center for Business and Economic Research: Director,* Richard J. Clarey; *Research Associates:* Bruce H. Andrews, D. Bradlee Hodson, Robert C. McMahon; *Maine Business Indicators: Senior Editor,* Robert C. McMahon; *Assistant Editor:* Stanley M. Max; *Maine Small Business Development Centers Program: Director:* Charles F. Davis; *Institute for Real Estate Research and Education: Director:* Valarie C. Lamont; *Associate Director:* Susan M. Jones

## Department of Accounting

*Chair:* Andrew J. Potts, 217 Luther Bonney, Portland

*Professors:* Gutmann, Jagolinzer, Potts; *Associate Professors:* Hodson, Sanders, Violette

## Department of Business Administration

*Chair:* Henry L. Parsons, 522 Luther Bonney, Portland

*Professors:* B. Andrews, Houlihan, Neveu, Patton; *Associate Professors:* Artz, Clarey, Grover, Lombardo, McMahon, Parsons, Phillips, Voyer; *Assistant Professors:* Farinella, Jensen, Jorgensen, Munger

## Department of Associate Business Administration

*Chair:* James R. Westfall, 118 Bedford Street, Portland

*Professor:* Gold; *Associate Professors:* Aiello, S. Andrews, Bay, MacDonald, Manny, Purdy, Westfall

## Programs and Requirements

The School of Business offers a number of different programs to meet student needs. The School offers a program in business administration leading to an associate of science in business administration degree. Undergraduate programs leading to the degree of bachelor of science are available in accounting or business administration. In addition, the School provides a graduate program leading to the degree of master of business administration and a graduate program in manufacturing management which is offered jointly with the School of Applied Science (see graduate catalog for information).

*Note:* Specific courses presented in this catalog may not be offered each semester.

## Associate of Science in Business Administration

The associate program in business administration is designed to prepare students who wish to complete their education in two years for employment in junior management positions in several different careers; and to provide a sound foundation for those students who perform well and who wish to transfer to a baccalaureate program in business administration at this University or other institutions.

Associate degree graduates are prepared for employment at the junior management level in many fields of business. Some fields of business that graduates have entered are accounting, bookkeeping, business computers/data processing, sales, retailing, banking, finance, real estate, hospitality services, and management trainee programs.

While the program emphasizes business, it contains courses in liberal arts including English, fine arts, social science, humanities, and mathematics. A pre-baccalaureate concentration for those students planning to enter a baccalaureate program in business administration immediately after completion of the associate degree program is available. This concentration requires more mathematics and liberal arts courses than the career concentrations.

The hotel, motel, and restaurant management option is a cooperative, two-year program developed jointly by Southern Maine Technical College and the A.B.A. program. The fourth semester is offered on the SMTC campus in their Culinary School. Students are enrolled at the University but attend classes at SMTC and must provide their own transportation.

### *Admission Requirements*

Any high school student may seek admission to the associate degree program. A college preparatory background, while desirable, is not necessary. Applicants should complete the University of Southern Maine application and specify the associate in business administration program. Candidates also must complete the Scholastic Aptitude Test.

### *Transfer Policy*

All of the courses within the associate program are transferable to the baccalaureate programs, providing a grade of C- or better is obtained, as general electives or toward major requirements as described below.

To be admitted from the associate degree program to the baccalaureate status within the School of Business, an individual must have completed at least 15 semester credit hours with an accumulative grade point average of at least 2.40 in all associate business (ABU) courses and in all associate level courses and at least a 2.00 in all baccalaureate level courses.

Associate business courses (ABU) must be completed with a minimum grade of C- to be considered the equivalent to:

ABU 111 and 112	=	ACC 201
ABU 280	=	BUS 280
ABU 101	=	ECO 201J
ABU 102	=	ECO 202J

Associate business courses (ABU) must be completed with a minimum grade of C (2.0) to be considered the equivalent to:

ABU 220 and ABU 212	=	ACC 202
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For any baccalaureate courses which have been completed, an accumulated grade point average of at least 2.00 must be earned.

ABU 220 Introduction to Business Finance; ABU 240 Principles of Management; and ABU 260 Marketing must be validated. Other associate level courses not mentioned above do not have baccalaureate equivalency and therefore transfer as general electives.

From the time of admission to baccalaureate status within the School of Business, an individual must fulfill the remaining criteria for admission to a major in the same manner as any other baccalaureate student.

### *Course Enrollment Policy*

Students who have not been admitted to an associate degree program within the School will be allowed to enroll in associate business courses on a space-available basis according to the following priorities:

1. They have declared a major which requires the course in its curriculum;
2. They have been admitted as baccalaureate degree students in the School of Business;
3. They are admitted to the University as degree candidates; and
4. They are non-degree students.

### *Associate Degree Requirements*

The minimum number of credits required for the degree is 60 (including 15 credits of ABU courses completed at the University of Southern Maine).

#### Basic Requirements (18 credits)

ENG 100C	College Writing
ABU 119	Business Communication

Two courses selected from the following with approval of an advisor: MAT 010, MAT 011B, MAT 100, MAT 110D, MAT 211. (MAT 010 and MAT 011B do not transfer into any USM baccalaureate program.)

From courses approved for Core curriculum (6 credits)

1. One Humanities from a) Literature or b) Other Times/Other Cultures

or

One Fine Arts from a) Performance-Centered or b) History-Centered

2. Social Science

Required Courses in Business for all concentrations, except pre-baccalaureate concentration (27 credits)

ABU	101	Principles of Economics I
ABU	102	Principles of Economics II
ABU	111	Principles of Accounting I
ABU	112	Principles of Accounting II
ABU	190*	Computers in Business
ABU	220	Introduction to Business Finance
ABU	240	Principles of Management
ABU	260	Marketing
ABU	280	Legal Environment of Business

\*The requirement for ABU 190 Computers in Business may be satisfied by passing the School of Business Computer Proficiency Examination. (No course credit will be granted for passing this examination.)

Associate Business Administration Program Concentration (15 credits)

*Accounting Concentration*

ABU	211	Tax Accounting for the Small Business
ABU	212	Fundamentals of Managerial Accounting
ABU	213	Accounting with Computers
ABU		Program Elective (3 credits)

General Elective (3 credits)

*Computer Concentration (15 credits)*

ABU	191	Introduction to Structured Programming
ABU	294	Introduction to Microcomputer Data Bases

Select three computer electives from the following list, one of which must be ABU 297 or ABU 285 (in computers):

EET	071	Microcomputer Architecture and Applications
ABU	213	Accounting with Computers
ABU	291	COBOL Applications and Documentation
ABU	292	Operating Systems and Networks
ABU	295	Data Design and Handling
ABU	296	Business Information Systems
ABU	297	Advanced Database Systems
ABU	285	ABA Work Internship (in computers)

*Management Concentration (15 credits)*

ABU	243	Small Business Management
ABU	253	Human Relations in Business
ABU		Program Electives (6 credits)

General Elective (3 credits)

*Marketing Concentration (15 credits)*

ABU	262	Introduction to Market Research
ABU	268	Advertising
ABU	285	Business Internship or ABU 271 Independent Study or ABU 243 Small Business Management
ABU		Program Elective (6 credits)

*Hotel, Motel and Restaurant Concentration (spring semester at SMTC) (15 credits)*

CA	103	Fundamentals of Cooking
HMR	124	Food and Beverage Management
HMR	132	Front Office Management
HMR	224	Hotel-Motel Law

*ABU Program Electives*

To fulfill the ABU electives required in the above concentrations, students may select from the following courses:

Any ABU course (check prerequisites)

ACC	202	Principles of Management Accounting
ACC	301	Intermediate Accounting I
BUS	165J	Consumer Studies



BUS	190	Personal Finance
MAT	109D	Linear Systems
MAT	110D	Business Calculus
MAT	211	Probability
MAT	212	Statistics

#### *Pre-Baccalaureate Business Concentration*

This concentration is designed for those associate degree students who wish maximum transfer flexibility into a baccalaureate business degree program. Basic requirements (18 credits) are listed under Associate of Science in Business Administration.

#### Required Courses in Business (18 credits)

ABU	101	Principles of Economics I
ABU	102	Principles of Economics II
ABU	111	Principles of Accounting I
ABU	112	Principles of Accounting II
ABU	190	Introduction to Computers in Business
ABU	280	Legal Environment of Business
ABU	Program Electives (6 credits)	

Select two from the following: ABU 100, ABU 180, ABU 211, ABU 212, ABU 220, ABU 221, ABU 222, ABU 226, ABU 240, ABU 260, ABU 271, ABU 285, ABU 291, ABU 292, ABU 294, ABU 295, ABU 296, ABU 297, ABU 299, ACC 202, BUS 190

#### Mathematics (6)

Select two courses from the following sequence depending upon mathematics courses taken to satisfy Basic Requirements above: MAT 100, MAT 110D, MAT 211, MAT 212 (Students who complete MAT 110D, MAT 211, and MAT 212 in their first nine hours of mathematics should select a course to fulfill the Core curriculum requirement in Reasoning.)

#### From courses approved for Core curriculum (12 credits)

Students should take no more than one course from any four of the five designated areas.

1. Natural Science with Lab
2. Social Science
3. Humanities from either a) Literature or b) Other Times/Other Cultures
4. Fine Arts from either a) History-Centered or b) Performance-Centered
5. Interdisciplinary COR designated course

## **Baccalaureate Programs in Business Administration and Accounting**

The primary objective of the undergraduate baccalaureate programs in business administration and accounting is to develop the student's abilities to assume the responsibilities of general and financial management. The programs aim at developing skills and an attitude of mind that will enable the student to cope successfully with the changing problems of management in the years ahead.

The programs are implemented in three phases. First, the student acquires broad training in the arts and sciences for the necessary foundation upon which his or her future education will build. Second, the student pursues a program of study designed to provide an understanding of the major functional areas common to most business operations and knowledge of certain fields which are particularly relevant to the study of management. Courses in this phase may not be taken until the student achieves sophomore standing (23 credits or more). Third, the student undertakes to acquire a deeper knowledge of the selected major field, either accounting or business administration. This is accomplished by taking 18-21 credit hours beyond the common requirements in business and economics.

#### *300-Level Course Policy*

Students who are not candidates for baccalaureate majors within the School may be allowed to enroll in 300-level or above courses on a space-available basis according to the following priorities:

1. They have declared a major which requires the course in its curriculum.
2. They have been admitted to the minor in business administration.
3. They are admitted to the University as degree candidates.
4. They are non-degree students.

### *Validation of Upper-Division School of Business Course Requirements*

Courses in the School of Business which are numbered 300 or higher shall be taken only by juniors and seniors. In order for a student to receive credit toward a School of Business degree for a 300-level or 400-level business or accounting course taken while a freshman, sophomore, or associate degree student, it must be validated by a method which conforms to the policies established by the American Assembly of Collegiate Schools of Business (AACSB). The validation procedures listed below are applicable to all students who complete upper-division business or accounting courses or their equivalents while they are freshmen, sophomores, or associate degree students at either USM, other University of Maine System institutions, or other community/junior colleges and baccalaureate degree granting institutions from which transfer credit may be requested. The School of Business normally accepts transfer credit from institutions which have regional accreditation (e.g., New England Association, North Central, WICHE, etc).

1. BUS 320 Business Finance may only be validated by passing the Departmental competency exam developed at USM.
2. BUS 340 Management may be validated by either (1) obtaining a passing score on the College Level Equivalency Program (CLEP) subject exam Introduction to Management designed by the Educational Testing Service, or (2) earning a grade of C=2.00 (A=4.00 system) or higher in BUS 452 Organizational Behavior.
3. BUS 360 Marketing may be validated by either (1) obtaining a passing score on the CLEP subject exam Introductory Marketing or (2) earning a C=2.00 (A=4.00 system) or higher in BUS 367 or BUS 361, or (3) by passing the Departmental competency exam developed at USM.
4. BUS 380 Advanced Legal Issues in Business I may be validated by obtaining a passing score on the College Level Equivalency Program (CLEP) subject exam Intro to Advanced Legal Issues in Business I designed by the Educational Testing Service.
5. ACC 301 Intermediate Accounting I may be validated by earning a grade of C=2.00 (A=4.00 system) in ACC 302 Intermediate Accounting II.

Other 300-level or 400-level courses in the School of Business cannot be validated at this time. Courses similar in title with comparable course descriptions may be accepted as general electives, but will not be applied toward major or minor requirements in the School of Business.

If a student does not succeed in validating a 300-level or 400-level business or accounting course taken as a freshman, sophomore, or associate degree student, then that course cannot be applied toward fulfilling a School of Business requirement and the appropriate business or accounting course must be completed.

The School of Business validation policies stated above pertain to all students admitted to the University of Southern Maine since the fall of 1986. These validation policies are subject to change in ensuing USM catalogs.

## **Bachelor of Science in Accounting**

### *Degree Requirements*

All students must complete at least 120 credit hours of coursework. To be eligible for the B.S. degree, a student must have attained an accumulative grade point average of 2.00 or higher in coursework taken in baccalaureate programs at the University and in all baccalaureate courses in accounting (ACC) and business (BUS). Accounting majors also must attain a 2.00 or higher cumulative grade point average in all ACC designated courses (including ACC 201 and ACC 202.) If a student fails to meet the above 2.00 average requirements, the most recent courses with a grade of D may be repeated to

increase the average to 2.00, subject to approval by the dean's office. Transfer students majoring in accounting normally will need to complete at least 12 credits of 300-level or 400-level ACC designated courses at USM to obtain a B.S. degree. Students may petition the Department for exceptions. In addition, at least 50% of the basic and major requirements for accounting majors must be taken in the School of Business.

Students entering the four-year accounting degree program are classified as pre-accounting majors (PAC). Students are granted full standing in the accounting major once they have earned 53 credits and completed a specific subset of courses (earning a minimum grade of C- for each subset course and a minimum average of 2.0 for the whole subset). The subset includes: ENG 100C, MAT 110D, MAT 211, MAT 212, ECO 201J, ECO 202J, ACC 201, ACC 202, BUS 280. The subset courses are marked below with double asterisks (\*\*). Completion of the subset and full standing in the major are prerequisites to enrolling in any 300- or 400-level business or accounting courses.

Any student who plans to enroll in a course more than twice must, before enrolling, complete and have approved by the Department chair, a "course condition form" available from a School of Business academic advisor. Failure to do so may result in course credit disqualification.

The minimum number of credits (including the University's Core curriculum) required for the degree: 120 (A minimum of 60 credits must be taken from courses outside the disciplines of accounting or business. Students are encouraged to take more than the minimum).

1. Core Curriculum Requirements (31 credits)

Basic Competence

1. English Composition (3 credits)\*\*

Students who fulfill the English Composition Competence of the Core curriculum without earning credits must complete 3 credits of electives from CLA, ENG, FRE, GER, GRE, LAT, or SPA courses.

2. Skills of Analysis/Philosophy (3 credits)

3. Quantitative Decision Making

This requirement may be fulfilled by taking a mathematics course stipulated below under the supplementary requirements.

Methods of Inquiry/Ways of Knowing

1. Fine Arts

a. Performance-centered arts (3 credits)

b. History-centered arts (3 credits)

2. Humanities

a. Literature (3 credits)

b. Other Times/Other Cultures (3 credits)

3. Social Science to exclude both ECO and BUS courses (6 credits)

4. Natural Science (4 credits)

5. Interdisciplinary COR course (3 credits)

Supplementary Requirements Required by the School of Business  
Mathematics (9 credits)

a. MAT 110D Calculus for Business\*\*

b. MAT 211 Probability\*\*

c. MAT 212 Statistics\*\*

2. Basic Requirements for Accounting (33 credits)

ACC 201 Principles of Financial Accounting\*\*

BUS 280 Legal Environment of Business\*\*

ECO 201J Principles of Macroeconomics\*\*

ECO 202J Principles of Microeconomics\*\*

\*ECO 300 \*To satisfy this requirement select one of the following: ECO 350 Comparative Economic Systems; ECO 351 Economic Systems of the Former Soviet Union; ECO 360 Economic Development; ECO 361 Applied Economic Development; ECO 370 International Trade; BUS 330 International Financial Management; BUS 335 International Business; BUS 361 International Marketing.

BUS 320 Business Finance

BUS 340 Management

BUS	360	Marketing
BUS	371	Operations Research/Management Science
BUS	375	Production/Operations Management
BUS	450	Business Management and Policy
3. Major Field (21)		
ACC	202	Principles of Management Accounting**
ACC	301	Intermediate Accounting I
ACC	302	Intermediate Accounting II
ACC	305	Cost Accounting
ACC	313	Federal Taxes
Select one of the following two courses:		
ACC	410	Auditing
ACC	415	Internal Auditing

Select one or more additional courses, totaling 3 credit hours, from among 400-level accounting offerings.

Certain accounting courses are offered only once a year. Students should inquire about these when developing their academic program.

General Electives: (26) No more than 21 credit hours in this category may be taken in accounting, business, or economics courses.

### *Internships*

A limited number of internships are available in the Department of Accounting. Students with junior or senior standing (or special status) may earn three academic credits for any fall, spring, or summer semester (but not to exceed six total credits). A grade point average (GPA) of 2.5 or better is required for participation in internships. Students with a GPA between 2.0 and 2.5 may petition the Department of Accounting for a waiver of the 2.5 GPA requirement. The accounting internship will be applied to general elective credits only. The student, possibly with the assistance of the Department of Accounting and/or the Office of Career Services and Cooperative Education, secures a paid work experience of at least 14 weeks of full-time employment (30 hours or greater per week) that utilizes the skills being learned in the academic program. Each internship position must be a new experience under supervision approved by the faculty sponsor. (No internship positions will be approved for current or past work experience.) Because this is an academic program, meetings among the faculty sponsor, job supervisor, and student will be held periodically to ensure that a new learning experience is obtained. The student will be responsible for a term paper. The course is taken on a pass/fail basis only (refer to ACC 395 and ACC 396). For further information, consult with a School of Business academic counselor.

### *Computer Proficiency*

Certain courses in accounting have computer proficiency as a prerequisite. This proficiency may be demonstrated by successfully passing the School of Business Computer Proficiency Examination or earning a grade of C- or better in ABU 190 Computers in Business. The establishment of computer proficiency is a requirement for graduation in the accounting major.

## **Bachelor of Science in Business Administration**

### *Degree Requirements*

All students must complete at least 120 credit hours of coursework. To be eligible for the B.S. degree, a student must have attained an accumulative grade point average of 2.00 or higher in coursework taken in baccalaureate programs at the University and in all baccalaureate courses in accounting (ACC) and business (BUS). If a student fails to meet the above 2.00 average requirements, the most recent courses with a grade of D may be repeated to increase the average to 2.00, subject to approval by the dean's office.

Students entering the four-year business administration degree program are classified as pre-business majors (PBU). Students are granted full standing in the business administration major once they have earned 53 credits and completed a specific subset of courses (earning a minimum average of 2.00 for

the whole subset). The subset includes: ENG 100C, MAT 110D, MAT 211, MAT 212, ECO 201J, ECO 202J, ACC 201, ACC 202, BUS 280. The subset courses are marked below with double asterisks (\*\*). Completion of the subset and full standing in the major are prerequisites to enrolling in any 300- or 400-level business or accounting courses with the exception of BUS 340, BUS 350, and BUS 360 which require junior standing only.

The minimum number of credits (including the University's Core curriculum) required for the degree: 120 (A minimum of 60 credits must be taken from courses outside the disciplines of accounting or business. Students are encouraged to take more than the minimum).

#### Core Curriculum Requirements (31 credits)

##### Basic Competence

##### 1. English Composition (3 credits)\*\*

Students who fulfill the English Composition Competence of the Core curriculum without earning credits must complete 3 credits of electives from CLA, ENG, FRE, GER, GRE, LAT, or SPA courses.

##### 2. Skills of Analysis/Philosophy (3 credits)

##### 3. Quantitative Decision Making

This requirement may be fulfilled by taking a mathematics course stipulated below under the supplementary requirements.

##### Methods of Inquiry/Ways of Knowing

##### 1. Fine Arts

a. Performance-centered arts (3 credits)

b. History-centered arts (3 credits)

##### 2. Humanities

a. Literature (3 credits)

b. Other Times/Other Cultures (3 credits)

##### 3. Social Science (not to include ECO or BUS courses) (6 credits)

##### 4. Natural Science (4 credits)

##### 5. Interdisciplinary COR course (3 credits)

#### Supplementary Requirements Required by the School of Business

##### 1. Mathematics (9 credits)

MAT 110D Calculus for Business\*\*

MAT 211 Probability\*\*

MAT 212 Statistics\*\*

##### 2. Social Science (6 credits)

To be selected from ANT, CRM, COM, GEO, HTY, POS, PSY, SOC, and SWO courses.

##### 3. Basic Requirements for Business Administration (30 credits)

ACC 201 Principles of Financial Accounting\*\*

BUS 280 Legal Environment of Business\*\*

ECO 201J Principles of Macroeconomics\*\*

ECO 202J Principles of Microeconomics\*\*

BUS 320 Business Finance

BUS 340 Management

BUS 360 Marketing

BUS 371 Operations Research/Management Science

BUS 375 Production/Operations Management

BUS 450 Business Management and Policy

##### 4. Major Requirements (21 credits)

ACC 202 Principles of Management Accounting\*\*

BUS 327 Investment Management

BUS 452 Organizational Behavior

Three credits must be taken from the following courses:

BUS 330 International Financial Management

BUS 335 International Business

BUS 361 International Marketing

Nine credits from ACC, BUS electives (300-level or above) ECO 310.

BUS 328 Financial Institutions and Markets

BUS 330 International Financial Management

BUS 335 International Business

BUS 346 Personnel and Human Resource Management

BUS 348 Industrial Relations

BUS	349	Women in Management
BUS	350	Career Planning and Development
BUS	361	International Marketing
BUS	363	Advertising
BUS	365	Consumer Behavior
BUS	367	Managerial Marketing
BUS	369	Marketing Research
BUS	380	Advanced Legal Issues in Business I
BUS	381	Advanced Legal Issues in Business II
BUS	385	Entrepreneurship and Small Business Formation
BUS	391	Computer-Based Decision Modeling and Simulation
BUS	395	Internship I
BUS	396	Internship II
BUS	399	Special Topics in Business and Management
BUS	445	Compensation Management
BUS	460	Management Information Systems
BUS	490	Independent Readings and Research
BUS	499	Special Topics in Business and Management

General Electives: (23 credits)

A minimum of 50% of all BUS and ACC course requirements must be taken at USM.

### *Internships*

A limited number of internships are available in the Department of Business Administration. Students with junior or senior standing (or special status) may earn three academic credits for any fall, spring, or summer semester (but not to exceed six total credits). A grade point average (GPA) of 2.5 or better is required for participation in internships. Students with a GPA between 2.0 and 2.5 may petition the Department of Business Administration for a waiver of the 2.5 GPA requirement. The first 3 credits in a business internship may be used to fill a 300-level business elective requirement. The second 3 credits in a business internship will count only as general elective requirement. Each internship position must be a new experience under supervision approved by the faculty sponsor. (No internship position will be approved for current or past work experience.) Because this is an academic program, meetings among the faculty sponsor, job supervisor, and student will be held periodically to ensure that a new learning experience is obtained. The student will be responsible for a final written report. The course is taken on a pass/fail basis only (refer to BUS 395 and BUS 396). For further information, consult with a School of Business academic counselor.

### *Computer Proficiency*

Certain courses in business administration have computer proficiency as a prerequisite. This proficiency may be demonstrated by successfully passing the School of Business Computer Proficiency Examination or earning a grade of C- or better in ABU 190 Computers in Business. The establishment of computer proficiency is a requirement for graduation in the business administration major.

### *Minor in Business Administration*

A self-designed minor in business administration (21 credit hours) is available to any baccalaureate student in the University. The general requirements for admission to the minor in business administration are completion of at least 23 credit hours and a grade point average of 2.00 or higher.

The minor is available for students who have specialized needs and interests based on prior business education, work experience, or unique career goals. Students wishing to pursue the minor must obtain the appropriate forms from the School of Business, complete the forms and return them to the School of Business signed by the student's advisor for his or her major. The courses to be included in the minor (minimum of 21 credit hours) are selected from the following: ACC 201, ACC 202, BUS 165J, BUS 280, or higher BUS courses. A minimum overall grade point average of 2.00 in minor area courses is required to complete successfully the self-designed minor in busi-

ness administration. At least 50% of the courses (12 credits) must be completed in the School of Business.

### *Master of Business Administration*

The School offers a master of business administration degree. For those interested in this program a separate brochure is available at the School of Business, Economics, and Management office. Please refer to the graduate catalog for further information.

### *Master of Manufacturing Management*

The School of Business, in collaboration with the School of Applied Science, offers a master of manufacturing management degree. For those interested in this program a separate brochure is available at the School of Applied Science. Please refer to the graduate catalog for further information.

*Specific School of Business courses in this catalog may not be offered each semester*

#### **ABU 100 Introduction to Business**

The purpose of this course is to provide students with a basic understanding of the business environment. A broad spectrum of business related topics will be introduced. Topical coverage will include economics, forms of ownership, marketing management, human resource management, accounting, finance and investments, insurance, and business ethics. Cr 3.

#### **ABU 101 Principles of Economics I**

A theoretical analysis of the basic characteristics, institution, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. (Cannot be applied toward Core curriculum requirement in Social Science.) Cr 3.

#### **ABU 102 Principles of Economics II**

A theoretical analysis of the firm, and its role in the transformation of scarce economic resources into the goods and services demanded by consumers. Industry competition and monopoly factors are the focus of microeconomics. (Cannot be applied toward Core curriculum requirement in Social Science.) Cr 3.

#### **ABU 111 Principles of Financial Accounting I**

An introduction to the accounting cycle through financial statements. A practical emphasis on accounting methodology with coverage of cash, accounts receivable, and inventory. Prerequisite: MAT 010 or equivalent proficiency (may be taken concurrently with ABU 111). Cr 3.

#### **ABU 112 Principles of Financial Accounting II**

A study of the procedures of accounting, in accordance with Generally Accepted Accounting Principles (GAAP), for property plant and equipment, long-term investments, and bonds. In addition, the following entities of proprietorships, partnerships and corporations are covered from a practical approach. Analysis of financial

statements concludes this course. Prerequisite: ABU 111. Cr 3.

#### **ABU 119 Business Communication**

This course introduces students to business communication strategies and provides practice in the application of those strategies using the case method. Students compose business letters, short and long reports, and employment writing. (Formerly ENG 019) Prerequisite: ENG 100C. Cr 3.

#### **ABU 180 Introduction to Computing**

A first computer course, introduces computer technology through an extensive exploration of word processing, MS-DOS operating system, MS windows graphical user interface, and computer hardware, using IBM compatible computers. Also provided is substantial coverage of E-mail and other Internet activities, along with some exploration of presentation software. Exposure to other facets of modern computing will be offered as time permits. There is substantial hands-on computing required outside of class. Prerequisites: none. (Students who have met the School's computer proficiency requirement, e.g., ABU 190, may not enroll.) Cr 3.

#### **ABU 190 Computers in Business**

An examination of business problem-solving techniques using modern computer applications software. Primary focus is on the use of electronic spreadsheets as a business problem-solving tool, including proper spreadsheet model design and the use of appropriate graphical representation of model results. Other computer problem-solving software is examined. Interpretation and effective communication of results, both written and oral, are practiced. Prerequisite: MAT 011B or equivalent proficiency and computer literacy. Cr 3.

#### **ABU 191 Introduction to Structured Programming**

This course is an introduction to modern structured programming on a microcomputer using a state-of-the-art compiler language. It covers

all standard control and logic structures, arrays, functions, subroutines, and data files. Major emphasis is given to an ongoing consideration of problem-solving techniques as they apply to simple and complex programming situations. Prerequisite: ABU 190 or permission of the instructor. Cr 3.

#### **ABU 211 Tax Accounting for the Small Business**

Students will be introduced to federal taxation with a primary emphasis for the self-employed individual. Areas covered include business profit (loss), depreciation, capital gains and losses, disposition of business property, estimated taxes, self-employment tax, and overall taxation for individuals. Payroll reporting requirements will also be included in this course. Prerequisites: ABU 111 and 112. Cr 3.

#### **ABU 212 Fundamentals of Managerial Accounting**

The purpose is to introduce students to areas of managerial accounting. Topics covered include cost-volume profit analysis, job order cost, standard cost, capital budgeting, cash flow, economic order quantities, and financial reporting for manufacturing concerns. Prerequisite: ABU 112. Cr 3.

#### **ABU 213 Accounting with Computers**

This is a practical introduction to accounting applications as accomplished with a computer. General ledger, payroll, inventory, accounts receivable and payable are explored using a popular commercial accounting software package. The topics of system selection factors, acquisition, system planning, implementation planning, data entry, report generation, and analysis are also included. Prerequisites: ABU 112 and ABU 190 or equivalent. Cr 3.

#### **ABU 220 Introduction to Business Finance**

A study of the promotion, organization, and financing of the single proprietorship, partnership, and corporation. Such topics as fund flows, ratio analysis, breakeven analysis and leverage, time value of money concepts, cost of capital and capital budgeting are examined. Prerequisites: MAT 011B or equivalent proficiency, ABU 101, ABU 102, ABU 111 and ABU 112. Cr 3.

#### **ABU 221 Principles of Real Estate**

An overview of the fundamentals of real estate that includes rights and interest in land, forms of ownership, contracts, mortgages, ethics, home construction components, elements of listing and selling, as well as the comparative market analysis. This course will also include the state and federal rules and regulations that apply to license law, law of agency and the transfer of real property. Cr 4.

#### **ABU 222 Real Estate Law**

A study of real estate law in general and Maine law in particular. Topics include land descriptions, landlord tenant law, land use regulation, zoning, transfers by deed and at death, financial interests and contracts. The course also covers legal matters relating to brokerage including agency law and broker licensing. Cr 4.

#### **ABU 223 Real Estate Methods**

A study and application of the practices involved in the real estate profession. Topics include appraisal, construction, negotiations, ethics, financing, and business planning. The course will examine and identify the requirements, forms and individuals found in the selling process. Prerequisite: ABU 221 or permission of instructor. Cr 4.

#### **ABU 227 Introduction to Stocks and Bonds**

Provides the planning and management of investment programs for all types of investors. Evaluates the various media of investments in terms of their risks and profits. The functions of the stock market and its behavior are examined. Cr 3.

#### **ABU 240 Management**

A comprehensive study of the fundamentals of management with emphasis on the planning, organizing, leading, and controlling functions. Topics include managerial ethics and social responsibility; problem solving and decision making, organizational strategy; systems and contingency theories; organizational behavior; motivation; information systems; and international management. Prerequisites: ABU 101 and ABU 102. Cr 3.

#### **ABU 243 Small Business Management**

A study of the aspects of management that relate most specifically to the management of small business. The course covers areas of business planning, development, and operation which the prospective owner/manager must consider seriously early in his/her thinking. During the course each student will develop a comprehensive small business plan. Prerequisites: ABU 102, ABU 111, ABU 112, ABU 260. Cr 3.

#### **ABU 253 Human Relations in Business**

Introduction to the behavioral sciences, emphasizing typical behavioral problems faced in business by employees and management. Lectures, case analysis, and outside readings are supplemented by involving the student in role playing and analyzing collected data. Prerequisite: ABU 240. Cr 3.

#### **ABU 260 Marketing**

A study of the marketing organization with a focus on product policies, distribution policies,



promotional and pricing policies. Market research is implemented by getting students involved in casework, controversial issues, and local business community projects. Prerequisite: ABU 102. Cr 3.

**ABU 262 Introduction to Market Research**

Secondary sources of data, sampling, analysis, and applications of marketing research. Survey design and data collection are discussed. Not a statistical or mathematical orientation. Prerequisite: ABU 260. Cr 3.

**ABU 264 Retailing**

Study of the retail distribution structure and of the problems involved in successful store operation under current conditions. Prerequisite: ABU 260. Cr 3.

**ABU 265 Merchandising and Sales Promotion**

Theories and principles of product planning and promotional selling of various product lines in retail stores. Prerequisite: ABU 264. Cr 3.

**ABU 266 Salesmanship**

A study of the basic theories, skills, and techniques required for effective selling. Cr 3.

**ABU 267 Sales Management**

Analysis of the problems facing marketing management in formulating sales policy and in managing the sales organization. Prerequisite: ABU 260. Cr 3.

**ABU 268 Principles of Advertising**

The advertising field and career opportunities are surveyed. Significance to business and industry; study of various media in relation to costs and results. Cr 3.

**ABU 271 Independent Study**

Selected business topics relating to the student's degree program may be studied and researched on an independent basis. Prerequisites: GPA 2.5, sophomore standing and permission of the instructor and chair of the department. Cr variable.

**ABU 280 Legal Environment of Business**

This course introduces students to the legal system, consumer law, agency law, administrative law, antitrust law, labor law, equal employment law, environmental law, and other topics. It stresses the social responsibility of business and the legal and ethical framework in which businesses must function. Cr 3.

**ABU 285 ABA Work Internship**

This course provides students with an opportunity to apply their academic training to experiences in the workplace. Students apply their coursework and library research to their jobs.

Interns are contacted the first week of class for orientation. Prerequisite: sophomore standing. Cr 3.

**ABU 291 COBOL I: Applications and Documentation**

An introduction to programming in the COBOL language, it includes practice in the structure, rules, and vocabulary of COBOL using exercises in structured problem analysis, program specification techniques, and coding. Programs will focus on simple business problems and generally accepted business procedures. Prerequisite: A grade of B (3.00) or better in ABU 191 or permission of the instructor. Cr 3.

**ABU 292 Operating Systems and Networks**

A combination of theory and hands-on use of modern computer operating systems and networks. Included are: examination of various microcomputer and mainframe operating systems; development of batch operating system procedures and utilities; hard disk management; computer networks; and electronic mail. Prerequisite: ABU 191 or permission of the instructor. Cr 3.

**ABU 294 Introduction to Databases**

This course is an introduction to modern relational database and fourth generation languages on a microcomputer. It includes single and multiple file databases, structured and non-procedural queries and reports, relating of multiple files, and the development of multi-step procedures. Prerequisite: ABU 190 or permission of the instructor. Cr 3.

**ABU 295 Data Design and Handling**

A course in the design, use and management of advanced data file structures and elementary databases. Content includes data storage, file and database concepts, the actual development and use of direct access methods such as hashing and keys, and the development of primitive databases using both pointer and inversion organization. Prerequisite: A grade of B or better in ABU 191 and ABU 294. Cr 3.

**ABU 296 Business Information Systems**

The purpose of this course is to develop an understanding of the interrelationships and requirements for an integrated business data processing system in order to provide accurate and timely management information. It examines the most common business applications. Prerequisites: ABU 240 and ABU 294. Cr 3.

**ABU 297 Advanced Database Systems**

This course explores the design, use, and management of modern database systems. Emphasizes theory and application of relational database design, along with use of 4th generation non-procedural query languages. Contrasts

production databases with 4th generation tools. Applies these tools to demonstrate MIS and DSS concepts. Prerequisites: ABU 191 and ABU 294. Cr 3.

### *Hotel, Motel and Restaurant Concentration Courses Offered at SMTC*

#### **CA 103 Fundamentals of Cooking**

This course presents the basic knowledge needed to understand and become skillful in basic food preparation in a commercial setting. Basic preparation of breakfast, salads, cold and hot meats, fish, poultry, fruits and vegetables, pastas, potatoes, soups, and desserts are covered. Emphasis is placed on sanitation, portion control, standardized recipes, and presentation. Cr 6.

#### **HMR 124 Food and Beverage Management**

The main focus is the information necessary for management control and decision making in the food and beverage sector of the hospitality industry. Included are such subjects as food, beverage, and labor cost accounting; inventory management; purchasing; scheduling; menu planning; engineering; and marketing. Nutrition, sanitation and safety, product costing and pricing, as well as automation and production planning are discussed. Cr 3.

### *Baccalaureate Program*

Certain accounting courses are offered only once a year. Students should inquire about these when developing their academic program.

#### **ACC 201 Principles of Financial Accounting**

An introduction to accounting principles and concepts. Emphasis is placed on understanding financial statements and the accounting for assets, liabilities, equities, revenue, and expenses. Prerequisite: sophomore standing. Cr 3.

#### **ACC 202 Principles of Management Accounting**

This course focuses on uses of accounting information to assist in managerial decision making. Emphasis is placed on fundamentals of cost accounting, inventory controls, cost-volume-profit analysis, capital and other budgeting, statement of cash flows, income tax considerations, and quantitative techniques. Prerequisites: computer proficiency or ABU 190 and ACC 201 and sophomore standing. Cr 3.

#### **ACC 301 Intermediate Accounting I**

A study of accounting theory and practice applicable to the recording and reporting of assets. Includes study of the underlying conceptual framework. Prerequisite: ACC 202. Cr 3.

#### **ACC 302 Intermediate Accounting II**

A study of accounting theory and practice

#### **ABU 299 Special Topics**

This course will be offered on an irregular basis to present special topics relevant for the ABA major. Cr 1-3.

#### **HMR 132 Front Office Management**

This course deals with the center of operations from the guest's perspective. Operations, reservations, registration, accounting, the night audit, and human resources are all covered. The special areas of yield management and up-selling will be discussed. The importance of forecasting and communications will receive special emphasis. Cr 3.

#### **HMR 224 Hotel-Motel Law**

Contracts, guests' rights, restaurant patrons' rights, and the duty to protect customers in both restaurant and lodging properties are all of major concern in our overly litigious society. This course is a survey of these and other concerns to managers, owners, and operational staff. Liability of food and beverage servers will receive special emphasis. The importance of OSHA, licensing, taxes, franchising agreements, and employee laws will be discussed. Cr 3.

applicable to the recording and reporting of liabilities and owners' equity. Includes selected special problem areas related to financial reporting. Prerequisite: ACC 301. Cr 3.

#### **ACC 305 Cost Accounting**

Concepts and analytical procedures necessary to the generation of accounting data for management planning, controlling, and product costing. Includes study of job order and process costing systems, standard costs and variance analysis, and current topics in cost/managerial accounting. Prerequisite: ACC 301. Cr 3.

#### **ACC 313 Federal Taxes**

An overview of federal tax laws, with a concentration on income taxes at the individual entity level. Emphasis will be on a conceptual approach with limited procedural applications. Prerequisites: ACC 201 and junior standing. Cr 3.

#### **ACC 395 Internship I**

This is the first internship course (junior or senior standing; special students with permission). See description of internship program in catalog text. Cr 1-3.

#### **ACC 396 Internship II**

This is the second internship course. Prerequisite: ACC 395. Cr 1-3.

### **ACC 410 Auditing**

A study of auditing philosophy and theory relative to the examination of financial statements and other data. Coverage includes internal control, auditing standards and procedures, and the legal and ethical responsibilities of the independent auditor. Prerequisites: ACC 302 and senior standing. Cr 3.

### **ACC 415 Internal Auditing**

A study of the nature of internal auditing, professional standards, organizational controls, operational auditing, and internal audit reporting. Prerequisite: ACC 302. Cr 3.

### **ACC 420 Senior Seminar in Accounting**

An insight into current developments in accounting and other specialized accounting topics. This course is scheduled on an as-needed basis. Prerequisites: ACC 301 and senior standing. Cr 3.

### **ACC 440 Advanced Accounting**

This course is designed to expose the students to various advanced topics in accounting. A major portion of the course will cover the principles, theory, and procedures that surround business combinations and consolidated financial statements as well as the application of accounting principles to accounting problems arising in conjunction with foreign currency translation, partnerships, and foreign exchange. This course will include an overview of governmental and institutional accounting principles. Prerequisite: ACC 302. Cr 3.

### **ACC 460 Accounting Information Systems**

Technical foundations and methodology used in systems analysis and design, with emphasis on applications to the accounting cycle in organizations. Prerequisites: Computer proficiency or ABU 190 and ACC 301. Cr 3.

### **ACC 490 Independent Readings and Research in Accounting**

Selected topics in the various areas of accounting, auditing, and income taxes may be studied and researched on an independent basis. Prerequisites: Permission of instructor and Department chair and senior standing. Cr 1-3.

### **BUS 165J Consumer Studies**

This course explores the dynamics of consumption. Emphasis is placed on cultural, sociological, and psychological forces affecting consumers. Other topics: consumer decision making, materialism in society, marketing, and consumer research. Prerequisites: English 100C or 101C (Students with credit for BUS 365 may not enroll. When taken by business or accounting majors, this course gives general elective credit). Cr 3.

### **BUS 190 Personal Finance**

In dealing with the problems of managing personal finances, primary emphasis is placed on methods of measuring and evaluating expenditures to assure optimal benefit from the income. It includes an evaluation of typical occupations and incomes; of life insurance with the various types, investments and mutual funds; of the borrowing of money and use of credit; of taxes and estate plans. The course work will be a series of readings with brief case problems in each of the major areas. (When taken by business or accounting majors, this course will give general elective credit.) Cr 3.

### **BUS 280 Legal Environment of Business**

This course introduces students to the legal system, consumer law, agency law, administrative law, antitrust law, labor law, equal employment law, environmental law, and other topics. It stresses the social responsibility of business and the legal and ethical framework in which businesses must function. Cr 3.

### **BUS 320 Business Finance**

This course introduces the student to the theories and techniques of managing capital sources and uses within the framework of shareholder wealth maximization. Lecture, problems, cases. Prerequisites: Computer proficiency or ABU 190, ECO 201J, ECO 202J, ACC 202, MAT 212 and junior standing. Cr 3.

### **BUS 327 Investment Management**

Introduction to the securities markets, investment media, and strategies for managing individual and institutional investment portfolios. Special attention is directed to the risk and rate-of-return aspects of corporate stocks and bonds, government bonds, options, futures, and mutual funds. Prerequisites: BUS 320 and junior standing. Cr 3.

### **BUS 328 Financial Institutions and Markets**

A comprehensive survey of the structure of the financial markets and the role of bank and non-bank financial institutions in the financial system. Topics address the financial markets as allocators of funds and distributors of risks, asset choices of financial institutions, and contemporary issues facing financial institution managers. Prerequisite: junior standing. Cr 3.

### **BUS 330 International Financial Management**

This course focuses upon financial management of the multinational corporation with assets domiciled abroad. The financial dimensions of multinationals require extensive knowledge of how to manage foreign exchange-denominated assets and liabilities and how to borrow money and issue stock in foreign countries. Thus, a basic overview of foreign exchange theory, bal-

ance of payments adjustment mechanisms, and international trade theory is provided. Other topics include: international import and export financing, international working capital management, multinational capital budgeting, and international cost of capital. Prerequisites: ACC 201, ECO 201, ECO 202 and junior standing. Cr 3.

### **BUS 335 International Business**

An introductory case-oriented course presenting the global economy and the political and cultural environments of international business. Topics will include the strategic aspects of international business and the financial, marketing, and human resource issues prevalent in international business. Prerequisites: ACC 202, ECO 201J, ECO 202J, and junior standing. Cr 3.

### **BUS 340 Management**

A comprehensive survey of the issues encountered by managers and the practices they employ in planning, organizing, leading, and controlling organizations. Among the topics: management as a discipline, motivation, power, leadership, strategy, decision making, organizational design, and information and control systems. Prerequisite: junior standing. Cr 3.

### **BUS 346 Personnel and Human Resource Management**

Analysis of professional practice issues in personnel and human resource management. Topics include human resource planning, staffing, performance appraisal, compensation and reward system design, training and development, employee rights and safety, labor-management relations, legal aspects of human resource management practice, and the international dimension of human resource management. Prerequisite: BUS 340. Cr 3.

### **BUS 348 Industrial Relations**

A study of industrial relations patterns in the U.S. Major focus is on the relationship between management and labor (organized and unorganized), and the bargaining, administration, and interpretation of contracts, the problem of dispute settlement, and a comparison of methods used in the U.S. and abroad. Attention is also given to industrial relations in unorganized firms and in the Civil Service. Prerequisites: BUS 340 and junior standing. Cr 3.

### **BUS 349 Women in Management**

For both men and women in business, education, and other work settings. It explores the changing business and organizational environment created by the increase of women in professional and managerial positions. The course examines theoretical concepts pertaining to women in management. Both women and men who are or aspire to be managers will benefit

### **BUS 350 Career Planning and Development**

An exploration of career options based on an analysis of one's own personal and professional profile: life transitions, skills and abilities, interests, motivations, and behavioral styles. Models, readings, case studies and experiential exercises will help participants analyze their patterns and preferences, anticipate life/work developmental stages, and design action programs to obtain their immediate and long-range plans. Cr 3.

### **BUS 360 Marketing**

This course is an introduction to the field of marketing. Topics include marketing strategy for products and services, market segmentation, product issues, pricing, promotion, distribution, consumer behavior, marketing research and information systems, international marketing, and nonprofit marketing. Prerequisite: junior standing. Cr 3.

### **BUS 361 International Marketing**

This course addresses the critical marketing skills required for business survival in today's world economy. It deals with international environments, international marketing management, and links international marketing with a company's overall strategic planning activities. Practical case work is included. Prerequisites: BUS 360 and junior standing. Cr 3.

### **BUS363 Advertising**

Students will explore the evolution of advertising; forms and medium used and their relationship to the product, the climate, the target market, all within the framework of the marketing concept. Prerequisites: BUS 360 and junior standing. Cr 3.

### **BUS 365 Consumer Behavior**

This course examines alternative explanations of consumer behavior. Emphasis is placed on cultural, sociological, and psychological influences on consumption. Other topics include consumer decision processes and the way managers use consumer characteristics to segment the market and develop marketing plans. Prerequisite: BUS 360 or permission of the instructor. Students with credit for BUS 165J may not enroll. Cr 3.

### **BUS 367 Managerial Marketing**

Students gain experience making marketing decisions. The emphasis is on applying a "systems" approach to marketing decision making and on integrating knowledge gained in the other functional business areas into a strategic market planning framework. Prerequisites: BUS 360 and junior standing. Cr 3.

### **BUS 369 Marketing Research**

Consideration of market research as a manage-

ment planning and evaluative tool. Emphasis on problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation and sampling. Prerequisites: BUS 360 and junior standing. Cr 3.

### **BUS 371 Operations Research/Management Science**

An examination of the role of quantitative decision making, and a survey of commonly used managerial problem-solving techniques. Emphasis is placed upon developing students' abilities to recognize the need for quantification; formulate business problems quantitatively; select and test computer-based decision-support system models; collect meaningful data; and interpret the implications of quantitative results. Prerequisites: Computer proficiency or ABU 190, MAT 212, and junior standing. Cr 3.

### **BUS 375 Production/Operations Management**

An examination of the role of operations within manufacturing and service organizations. Emphasis is placed upon recognizing operational opportunities and tradeoffs, and employing quantitative and qualitative tools and decision-support systems to assist strategic and operational decision making. Topics include: quality management, capacity management, process design, facility location, layout, and production planning. Prerequisite: BUS 371. Cr 3.

### **BUS 380 Advanced Legal Issues in Business I**

This course will cover negotiable instruments, contract law, trusts and estates, property law, and other legal topics. This course is intended to provide detailed study of many important legal issues facing businesses. Prerequisite: BUS 280, junior standing, or permission of the instructor. Cr 3.

### **BUS 381 Advanced Legal Issues in Business II**

This course will concentrate on the UCC and cover contracts, sales, secured transactions, securities regulation, bankruptcy, accountants' legal liability, and other topics. This course is designed to assist students preparing for the CPA examination. Prerequisite: BUS 280, junior standing, or permission of the instructor. Cr 3.

### **BUS 385 Entrepreneurship and Small Business Formation**

This course is about starting a business and about the benefits and costs, both personal and professional, of an entrepreneurial career. Students learn how to establish start-up teams, identify opportunities, and obtain resources. The course involves written self-appraisals, case analyses, team work, and presentations of comprehensive business plans. Prerequisites: ACC 201, ACC 202, and junior standing. Cr 3.

### **BUS 391 Computer-Based Decision Modelling and Simulation**

An in-depth examination of the role of the computer as an aid in managerial decision making. Emphasis is placed upon strengthening the student's ability to build and properly utilize computer-based decision models and simulation for problem solving in the public and private sectors. Prerequisites: Computer proficiency or ABU 190 or COS 160, MAT 211, MAT 212, junior standing and completion of admissions requirements for majors. Cr 3.

### **BUS 395 Internship I**

This is the first internship course (junior or senior standing; special students with permission). See description of internship program in catalog text. Cr 3.

### **BUS 396 Internship II**

This is the second internship course. Prerequisite: BUS 395. Cr 3.

### **BUS 399 Special Topics in Business and Management**

Cr 3.

### **BUS 445 Compensation Management**

Analysis of strategies used to design and implement effective compensation systems. Concerns about internal compensation fairness, external competitiveness, determination of pay structures, benefits, government regulation and compensation administration are the central features of the course. Prerequisites: BUS 346. Cr 3.

### **BUS 450 Business Management and Policy**

An in-depth examination of the strategic management process, focusing on goal formulation, strategy evaluation and strategy implementation in profit and nonprofit organizations, both large and small and manufacturing and service oriented. Case study analysis will be used to provide opportunities for students to master theories and concepts presented during the lecture sessions and develop critical understanding of organizations. Prerequisites: BUS 320, BUS 340, BUS 360 and senior standing. Cr 3.

### **BUS 452 Organizational Behavior**

An analysis of the interplay between individual and group behavior, leadership styles and the culture of an organization. The findings of behavior science are applied to such processes as motivation, influence, the structure of work, organizational design, leader-group relations and organizational change. Models, case studies, simulations, and applications. Prerequisites: BUS 340 and junior standing. Cr 3.

### **BUS 460 Management Information Systems**

The course focuses on the role of management information systems support in business organizations. Specific topics include computer hardware and software, data communications, deci-

sion making, systems theory, end user computing, information systems lifecycle, systems analysis and design, database concepts, and decision support systems. Prerequisites: Computer proficiency or ABU 190, BUS 340 and senior standing. Cr 3.

**BUS 490 Independent Readings and Research**

Selected topics in the various areas of finance, management, and marketing may be studied and researched on an independent basis. Prerequisite: junior standing. Cr 1-6.

**BUS 499 Special Topics in Business and Management**

Cr var. 1-3.

# School of Applied Science

*Dean:* Brian C. Hodgkin, 101 Technology Center, Gorham

*Assistant Dean:* Richard H. Carter, 101 Technology Center, Gorham

The School of Applied Science is an academic unit of the University delivering science, engineering, computer science, and technology programs. The School is organized into four departments: the Department of Computer Science, the Department of Technology, the Department of Engineering, and the Department of Applied Medical Sciences. Through these departments, the School offers bachelor's degrees, including the B.S. in computer science, electrical engineering, industrial technology, applied technical education, technology education, and applied technical leadership. In addition to the B.S. in electrical engineering, the first two years of civil and mechanical engineering and the first year plus selected second-year courses in other engineering disciplines are available. The School also works closely with the University's Department of Continuing Education for Business to provide courses and programs serving the needs of the region.

The School offers the M.S. degree in computer science. Through the Center for Engineering Studies, the M.S. degree in electrical engineering is extended from the University of Maine. The M.S. degree in applied immunology is offered in collaboration with the Maine Medical Center and the Foundation for Blood Research. The M.S. degree in manufacturing management is offered in collaboration with the School of Business, and the M.S. in industrial education with the College of Education and Human Development. Further information regarding the School's graduate programs may be found in the Graduate Catalog.

## *External Programs*

The External Programs unit helps the School carry out its mission of education, research and development, and technology transfer. It connects the School to the business, industrial, and education communities. It delivers workshops, seminars, conferences, and short courses; provides opportunities to bring real-world problems and projects into the classroom; and arranges internships and cooperative education experiences for students.

## *General Information*

Admission to an undergraduate program in the School of Applied Science is initiated through the University Admissions Office. Candidates for admission must be graduates of an approved secondary school and meet such other admissions requirements as are set out in the Admissions section of this catalog and individual program descriptions.

General academic policies will be found in the Academic Policies section of this catalog. Specific policies and requirements are set forth in the sections dealing with the individual departments of the School. All students are reminded that, in addition to meeting departmental requirements for a major, they must also meet the requirements of the University Core curriculum. See the Engineering section of the catalog for Core curriculum requirements for electrical engineering majors.

# Department of Computer Science

*Chair of the Department:* Charles Welty, 224 Science Building, Portland  
*Professors:* Heath, Welty; *Associate Professors:* Briggs, MacLeod; *Assistant Professors:* Boothe, Fenner; *Adjunct Faculty:* El-Taha, Flagg

The Department of Computer Science offers a four-year program leading to a B.S. in computer science. Computer science courses concern the theory and practice of solving problems by computer. More specifically, computer scientists build and analyze tools that allow complex problems to be solved. A component of computer science is the study and use of various programming languages, but computer science consists of much more than programming. The mathematical theory of computer science aids in determining the efficiency and correctness of algorithms and programs. In addition, a computer scientist must understand how computers are built and operate. The systematic application of general methods and computing technology to actual problems is also part of computer science. The undergraduate degree in computer science prepares students both for careers in the computing profession and for graduate study. Course requirements ensure that students receive instruction in both practical and theoretical aspects of computer science. This program in computer science is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation (CORPA) and the U.S. Department of Education.

## Programs and Requirements

### *Bachelor of Science in Computer Science*

All students are reminded that, in addition to meeting departmental requirements for a major, they must also meet the University Core curriculum requirements.

The total number of credits for graduation is 120.

To fulfill a major requirement, a course must be passed with a grade of C- or better. The accumulative grade point average of all courses applied to the major must be at least 2.0.

The specific course requirements are as follows.

#### A. Successful completion of the following courses:

COS	160	Structured Problem Solving: Pascal
COS	161	Algorithms in Programming
COS	170	Structured Programming Laboratory
COS	250	Computer Organization
COS	251	Software Systems
COS	255	Computer Organization Laboratory
COS	280	Discrete Mathematics
COS	285	Data Structures
COS	360	Programming Languages
COS	480	Theory of Computation
COS	499	Ethical Conduct and Social Responsibility
MAT	152D	Calculus A
MAT	153	Calculus B
MAT	380	Theory of Probability and Statistics (MAT 381 may be substituted for MAT 380)

B. Successful completion of six additional COS courses numbered 300 and above, excluding COS 498.

In order to ensure that depth of knowledge is obtained in a broad range of areas in computer science, at least one course must be chosen from each of the following three groups:

Algorithms and Data Structures	Languages and Software Design	Systems and Architecture
COS 374	COS 365	COS 355
COS 385	COS 372	COS 357
COS 452	COS 457	COS 450
COS 472	COS 469	COS 460



- C. Successful completion of one additional mathematics course with second digit 5 or greater, excluding MAT 290 and MAT 390.
- D. (1) Completion of a two semester sequence of either  
 CHY 113K with CHY 114K and CHY 115 with CHY 116  
 or  
 PHY 121K with PHY 122K and PHY 123 with PHY 124.
- (2) In addition to the above requirement, completion of two additional science courses selected from the list below:  
 any of the requirement D (1) courses (with associated laboratory course) not used to satisfy requirement D (1),  
 PHY 211 with PHY 212  
 CHY 371  
 CHY 373  
 BIO 105K with BIO 106K  
 GEY 111K with GEY 112K  
 GEY 113  
 GEY 327  
 ELE 210  
 ELE 211  
 ELE 262  
 Subject to Department approval, other science courses with a strong emphasis on quantitative methods may be used to satisfy requirement (2).
- E. Successful completion of THE 170F.
- F. Successful completion of one or two additional courses (3 credits or more per course) in humanities, social science, or the arts beyond the Core requirement. Two courses are needed if a COR class was used to fulfill both the interdisciplinary component and a methods of inquiry/ways of knowing component. If a COR class only fulfilled the interdisciplinary component, only 1 course is needed. If no COR course was taken, 2 courses are needed.

### *Suggested Schedule*

The following schedule of mathematics and computer science courses is typical for the freshman and sophomore years.

	<i>Fall</i>	<i>Spring</i>
Freshman year	COS 160 COS 170 MAT 152D	COS 161 MAT 153
Sophomore year	COS 251 COS 280	COS 250 COS 255 COS 285

### *Double Majors*

Students who opt to pursue a double major with computer science as one of the major fields of study must satisfy all computer science degree requirements. The general requirements for a double major are listed under the heading Double Major in this catalog.

### *Minor in Computer Science*

A minor in computer science may be obtained by successfully completing the following courses with an accumulative grade point average of 2.0 in these courses: COS 160 and COS 170; COS 161; COS 251 or COS 211; COS 250 and COS 255; COS 285, and one additional COS course with first digit 2 or greater, excluding COS 212, COS 498, and COS 499.

### *Course Fees*

Course fees to cover the cost of materials and supplies are assessed in some computer science courses.

### **COS 101D Quantitative Decision Making Using Computers**

The primary objective of this course is to teach students how to use logical reasoning and quantitative methods to solve problems. Students will practice quantitative skills using packaged software (e.g., database systems, spreadsheets, statistical analysis tools) on microcomputers. This class requires no previous computer experience. Prerequisite: Two years of high school algebra. Cr 3.

### **COS 120E Deductive Logic**

This course will teach the formal techniques that allow one to infer valid conclusions from valid premises in ordinary English discourse. These rules of propositional and predicate logic are based solely on the logical form of statements, independent of their content, and can be used to analyze rational arguments in any discipline. English sentences will be translated into a more precise symbolic language that elucidates their structure. Prerequisite: Two years of high school algebra or equivalent. Cr 3.

### **COS 140 Programming in FORTRAN**

A study of programming techniques and applications using FORTRAN. Prerequisite: Two years of high school algebra or equivalent. Cr 3.

### **COS 160 Structured Problem Solving: Pascal**

An introduction to the use of digital computers for problem solving, employing the Pascal programming language as a vehicle. Content includes elementary control structures and data representation methods provided by Pascal and the top-down programming methodology. Course requirements include a substantial number of programming projects. This course must be taken concurrently with COS 170. Prerequisite: two years of high school algebra or equivalent. Cr 3.

### **COS 161 Algorithms in Programming**

The development of algorithms and their implementations in a higher-level programming language, with emphasis on proper design principles and advanced programming concepts. Introduction to the performance analysis of algorithms. Course requirements include substantial programming projects. Prerequisite: COS160. Cr 3.

### **COS 170 Structured Programming Laboratory**

Computational experiments will be designed to teach students how to construct reliable software in the Turbo Pascal Environment. Topics to be covered include: MS-DOS, conditional program flow, iteration, procedures and functions, and symbolic debugging. This course must be taken concurrently with COS 160. Cr 1.

### **COS 211 The C Programming Language**

A first course in the C programming language. This course should provide students with fundamental skills of C programming. Small to medium size programming projects will be written. Prerequisite: A previous course in problem solving and programming (e.g., COS 160) or instructor's permission. Cr 3.

### **COS 212 The UNIX Operating System**

Introduction to the UNIX system, system commands, standard editors, shells, and more. Prerequisite: Experience with some computer operating system. Cr 1.

### **COS 230 Programming in COBOL**

A study of the programming language used primarily in business. Prerequisite: COS 140 or COS 160. Cr 3.

### **COS 246 Programming Topics**

Topics to be covered may include programming languages not otherwise offered (e.g., Ada, Smalltalk), different programming methodologies (e.g., object-oriented programming), assembly languages, and other specific areas of programming. Prerequisite: COS 161 or permission of instructor. Cr 3.

### **COS 250 Computer Organization**

The basic hardware, architecture, and software of computer systems are covered. Subjects include digital logic design, microprogramming, machine languages, assembly languages, and operating systems. Prerequisite: COS 161. This course must be taken concurrently with COS 255. Normally only offered in the spring semester. Cr 3.

### **COS 251 Software Systems**

A study of systems programming concepts and software, including the Unix programming environment, C programming language, and Unix operating systems interface. Students develop their abilities in these areas through programming exercises and projects. Normally offered only in the fall semester. Prerequisite: COS 161. Cr 3.

### **COS 255 Computer Organization Laboratory**

Students design, build, and test combinational and sequential logic circuits and write assembly language programs. This course must be taken concurrently with COS 250. Cr 1.

### **COS 280 Discrete Mathematics**

Concepts of modern algebra, set theory, Boolean algebra, elements of graph theory, and their application to computer science. Prerequisite: COS 161. Cr 3.

### **COS 285 Data Structures**

Basic abstract data types and their representations, fundamental algorithms, and algorithm analysis. Consideration is given to applications. Specific topics include linked structures, trees, searching and sorting, priority queues, graphs, and hashing. Course requirements include a substantial programming component. Prerequisites: COS 251 or permission of instructor. Normally offered in spring semester only. Cr 3.

### **COS 355 Computer Architecture**

Fundamentals of the design and organization of digital computers. Topics include applications of Boolean algebra to logical design; machine algorithms used in addition, subtraction, multiplication, etc.; types of memory; synchronous and asynchronous operation; minimization of logic circuits. Also, concepts from micro-processors and large parallel computers. Prerequisite: COS 250. Cr 3.

### **COS 357 File Organization**

The topics covered extend those of COS 285 to include external data structures and algorithms that support file and database systems. Study of various external storage media including magnetic tape, disk and bubble memory. Various file organizations such as sequential, direct, and indexed sequential will be studied in detail. Prerequisite: COS 285. Cr 3.

### **COS 360 Programming Languages**

Examination of basic concepts and constructs of high-level languages via consideration of several representative languages. Topics include scope of declarations, binding time of constituents, type checking, and control organization. Study of implementation methods for various programming language features. Study of the methods of formal specifications of programming languages: regular, context-free, and attribute grammars and operational semantics. Exposure to programming in languages that deviate from the imperative style such as Lisp and Smalltalk. Prerequisites: COS 250, COS 285. Cr 3.

### **COS 365 Object Oriented Design**

Various languages utilizing the object oriented programming paradigm are covered with an emphasis on C++. Topics include principles of object oriented design and programming; classes with inheritance and polymorphism; function and operator overloading. Prerequisite: COS 285. Cr 3.

### **COS 370 Topics in Computer Science**

Topics to be covered may include philosophy of computers, history of computers, computers and society, simulation, graphics, and other advanced topics. Prerequisite: COS 285 or permission of the instructor. Cr 3.

### **COS 372 Software Engineering**

Study of methods applied to large-scale software development, including topics such as requirements analysis and specification, design, validation and verification, and project management, with emphasis on principles of design. Students use methods on a large programming project. Prerequisites: COS 250, COS 285. Cr 3.

### **COS 374 Numerical Analysis**

A study of the theory and application of computational algorithms for interpolation, equation solving, matrix methods, integration; error analysis. Prerequisites: MAT 252, COS 160, and permission of instructor. Cr 3.

### **COS 385 Design of Computing Algorithms**

An introduction to the design and analysis of algorithms. Techniques for designing algorithms, such as divide-and-conquer, greedy method, dynamic programming, and backtracking are emphasized and illustrated. Problems of practical importance including minimum spanning tree, single source shortest path, traveling salesperson, graph search, and pattern matching are covered. The concepts of NP-hard and NP-complete are also considered. Substantial programming in a high-level language. Prerequisite: COS 285. Cr 3.

### **COS 450 Operating Systems**

Bottom up construction of a layered operating system beginning with the hardware interface and ending with the user interface. Specific topics covered include concurrent processes, process management, I/O, virtual memory, file management, resource scheduling, and performance measurement. Students are assumed to be familiar with general machine architecture, functions of system software (compilers, loaders, editors, etc.), data structures, and to have some experience with UNIX or another multiprogramming operating system. Prerequisites: COS 250, COS 285. Cr 3.

### **COS 452 Computer Graphics**

A study of the techniques involved in computer graphics systems. Topics include: point-plotting and line drawing in two and three-dimensional space; clipping and windowing; geometric modeling; algorithmic solutions to the hidden line and hidden surface problems. Prerequisites: COS 251, COS 285. Cr 3.

### **COS 457 Database Systems**

Study of the methods and principles of database management systems (DBMS). Topics addressed include DBMS objectives and architecture, data models, data definition and data manipulation languages, and concurrency control. The entity-relationship and relational models are emphasized and their use required in a design project. Prerequisite: COS 285. Cr 3.

### **COS 460 Computer Networks**

A description of computer networks organized as a layered architecture based on the OSI Reference Model. Protocols and services of each layer are examined in detail. Specific local area networks, metropolitan area, and wide area networks will be considered. Prerequisites: COS 285, COS 251. Cr 3.

### **COS 469 Introduction to Compiler Construction**

Definition of a language, context-free grammars, rigorous definition of a typical small language, design and implementation of a compiler for programs within this language. Prerequisite: COS 360. Cr 3.

### **COS 472 Artificial Intelligence**

An introduction to the underlying concepts and applications of intelligent systems. Topics include pattern matching, production systems, computer representations of knowledge, heuristic search techniques and computer problem solving, and automatic theorem proving. The programming language Lisp is introduced. Students will develop programs in Lisp applying the concepts and techniques introduced. Prerequisites: COS 280, COS 285. Cr 3.

### **COS 480 Theory of Computation**

Study of the theoretical foundations of computer science, including elements of set theory and logic, the specification of formal languages via finite automata, regular expressions, push-down automata, context free grammars, and Turing machines. Also introduces the concepts of recursive and recursively enumerable sets. Prerequisite: COS 280. Cr 3.

### **COS 497 Independent Study in Computer Science**

An opportunity for juniors and seniors who have demonstrated critical and analytical capability to pursue a project independently, charting a course and exploring an area of interest within their major field. This course is only offered on a pass/fail basis and does not fulfill any computer science requirement. At most, three credits of COS 497 can be used to satisfy requirement B, as noted under Programs and Requirements. Prerequisites: junior or senior standing and permission of the Department chair and instructor. Cr 1-3.

### **COS 498 Computer Science Internship**

An opportunity for students to gain practical experience in computer science-related employment. The University internship program provides placement. This course is offered on a pass/fail basis only, does not fulfill any computer science requirement, and a maximum of 6 credits may be taken. Cr 3.

### **COS 499 Ethical Conduct and Social Responsibility**

A study of ethical perspectives and social responsibilities of computer professionals. Assigned readings provide the basis for class discussions of such issues as social control and privacy, computer viruses, ACM code of professional conduct, hacking, limits of correctness in computer software, military influence on computer science research and education. Prerequisite: senior standing. Normally offered in spring semester only. Cr 1.

## **Department of Engineering**

*Chair of the Department:* James W. Smith, 106 Technology Center, Gorham  
*Professor:* Guvench; *Associate Professors:* Hodgkin, Smith; *Assistant Professors:* Ellis, Jankowski, Most

Engineers apply the principles of chemistry, mathematics and physics to design and create instruments, structures, machines, and systems. Virtually every physical part of modern society was designed, developed, and tested by engineers. The computer, an engineering accomplishment itself, is now a valuable engineering tool.

Engineering programs include the bachelor of science degree program in electrical engineering, the first two years of civil and mechanical engineering, and the first year for several other engineering specialties.

Preparation for an undergraduate engineering program should include high school chemistry, physics, and mathematics including algebra and trigonometry. Courses are available at the University of Southern Maine for those students needing to make up prerequisites.

### **Admission Requirements**

**Programs and  
Requirements**

**I. Bachelor of Science in Electrical Engineering**

Electrical engineering is a challenging profession concerned with the design, development, fabrication, and control of electrical and electronic devices and systems. The undergraduate program is built on a foundation of physics, chemistry, and mathematics. It is broad-based but there are opportunities to specialize, particularly in digital systems and solid state device electronics and microelectronics. Computer usage is integrated throughout the curriculum. The goal of the program is that students will be technically competent and will have good communications skills, be able to work as part of a team or independently, function well in a multiskills setting, and be prepared for a lifetime of learning and professional growth. The electrical engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Requirements for the bachelor of science degree in electrical engineering at the University of Southern Maine include:

**Mathematics**

MAT	152D	Calculus A
MAT	153	Calculus B
MAT	252	Calculus C
MAT	350	Differential Equations

One advanced mathematics course selected from among the following:  
MAT 295, 352, 355, 364, 380, 381, 382. MAT 295 or 380 are recommended.

**Computer Science**

COS	160, 170	Structured Problem Solving: Pascal and Lab
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**Basic Science**

CHY	113K, 114K, 115, 116	Principles of Chemistry I and II
PHY	121K, 122K, 123, 124	General Physics I and II

**Electrical Engineering**

ELE	100	Introduction to Engineering
ELE	172	Digital Logic
ELE	210, 211	Electric Circuits I and II
ELE	262	Physical Electronics
ELE	271	Introduction to Microprocessors
ELE	300	Seminar
ELE	314	Linear Circuits and Systems
ELE	323	Electromechanical Energy Conversion
ELE	342, 343	Electronics I and II
ELE	351	Electromagnetic Fields
ELE	362	Materials Science
ELE	401, 402, 403	Design Project I, II and III
		<b>either</b>
ELE	425	Control Systems
		<b>or</b>
ELE	483	Communications Engineering

**Mechanical Engineering**

MEE	230	Thermodynamics
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**Technical Electives**

Three technical electives must be taken. At least 2 must be in electrical engineering. The third required technical elective can be chosen from selected physics, chemistry, mathematics, computer science, electrical engineering, and other technical disciplines as available and approved by the student's academic advisor.

**Core Curriculum Courses**

Category	Description	Course	
C	English Composition	ENG 100C	College Writing
D	Quantitative Decision Making	MAT 152D	Calculus A
E	Skills of Analysis/Philosophy	PHI 100-level -	One E-designated course
F	Performance-Centered Arts	THE 170F	Public Speaking
G	History-Centered Arts	One course	
H	Humanities: Literature	One course	

I	Humanities: Other Times/ Other Cultures	PHI	300-level – One I-designated course or one course from the Arts or Humanities which provides depth*
J	Social Science	ECO	201J, ECO 202J
K	Natural Sciences	PHY	121K, 122K
COR	Interdisciplinary		One course

\*Depth is defined as:

1. A sequence of two courses taken in the same department, or
2. A sequence of two courses in which one is a prerequisite for the other, or
3. A sequence of two courses which are closely related; such as Greek Philosophy and Greek Literature.

Credits to graduate: 134

Grade point average: 2.0 overall and 2.0 in 300-level and higher electrical engineering courses.

### *Minor in Electrical Engineering*

A minor in electrical engineering may be obtained by successfully completing the courses listed with an accumulative grade point average of 2.0: ELE 100, ELE 172, ELE 210, ELE 211, ELE 262, ELE 271, ELE 323, ELE 342, ELE 343, ELE 351. Science and mathematics prerequisites for these courses must also be completed successfully.

### *II. Transfer Programs for Several Engineering Disciplines*

The transfer engineering program prepares students to complete the degree at the University of Maine or elsewhere. All University of Southern Maine students who have satisfactorily completed their first year or more at the University of Southern Maine are eligible to transfer to the University of Maine for the completion of the program. The following curricula are offered at the University of Maine: agricultural engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, engineering physics, forest engineering, mechanical engineering, pulp and paper technology, and surveying engineering.

Course fees to cover the cost of materials and supplies are assessed in some electrical engineering courses.

#### **ELE 100 Introduction to Engineering**

Engineers use mathematics extensively, reason quantitatively, communicate effectively in both written and oral forms, and work in teams. This course introduces students to the tools, tasks, and culture of engineering. Students undertake a series of small projects, each one utilizing a computer tool widely used by engineers in their work: spreadsheets, computer-aided design software, networking, and programming languages. All projects are completed with brief oral reports and demonstrations. One large group project integrates all the tools explored. Prerequisites: none. Typing skills are useful. Lecture 1 hr., Lab 3 hrs. Cr 3.

#### **ELE 172 Digital Logic**

Introduction to the design of binary logic circuits. Combinatorial and sequential logic systems. Design with small and medium scale integrated circuits and programmable logic devices (PLDs). Registers, counters, and random access memories (RAMs). The algorithmic state machine (ASM). Lecture 3 hrs. Lab. 2 hrs. 2 Design Cr. Cr 4.

#### **ELE 210 Electric Circuits I**

Basic circuit laws and theorems, natural and forced responses of first order systems, phasor concepts, application of basic circuit theorems to steady-state a-c networks including steady-state power. Characteristics and proper use of basic circuit instruments. Prerequisites: MAT 153, PHY 123. Lecture 3 hrs., Lab./Comp. 2 hrs. Cr 4.

#### **ELE 211 Electric Circuits II**

Electric circuit analysis in the frequency domain. Study and application of Laplace transforms, transfer functions, poles and zeros, frequency response, step and impulse response, and Fourier series. Prerequisite: ELE 210. Lecture 3 hrs., Lab. 2 hrs. Cr 4.

#### **ELE 262 Physical Electronics**

Basic characteristics and properties of materials of importance in solid-state engineering. Particular emphasis is placed on atoms, crystal structures, electronic conductivity, semiconductor theory and bipolar and field effect transistors. Prerequisites: CHY 113K, PHY 123. Lecture 3 hrs. Cr 3.

**ELE 271 Introduction to Microprocessors**

Introduction to microprocessors: architecture, operating principles, and programming. The microcomputer and its component parts: central processing unit (CPU), memory, input-output. Prerequisite: ELE 172. Lecture 3 hrs., Lab. 2 hrs. 1 Design Cr. Cr 4.

**ELE 300 Seminar**

Exploration of various professional and technical topics such as ethics and esthetics in engineering, résumé preparation, interview skills, the role of engineering in contemporary civilization, experiment design, engineering economy. Prerequisite: junior standing in engineering. Lecture 1 hr. (Pass/fail grade only) Cr 1.

**ELE 314 Linear Circuits and Systems**

Analysis of continuous and discrete-time linear systems. Sequences, difference equations, convolution, Z transforms, filters, and fast Fourier transforms. Prerequisites: ELE 211, MAT 350, COS 160 or equivalent. Lecture 3 hrs. 1 Design Cr. Cr 3.

**ELE 323 Electromechanical Energy Conv.**

Basic concepts of magnetic circuits and transformers. Introduction to conversion between electrical energy and mechanical energy through magnetic fields. Study of direct current motors and generators. Study of alternating current machines; induction motors, synchronous machines, and single phase motors. Introduction to electronic drive of motors. Prerequisite: ELE 211. Lecture 3 hrs., Lab. 2 hrs. Cr 4.

**ELE 342 Electronics I**

Fundamentals of electronic circuits with emphasis on the nonlinear nature of electronic devices, their modeling and applications in power conversion, waveshaping and small signal amplification. Analysis, design, and SPICE simulation of such circuits. Prerequisites: ELE 262, ELE 211. Lecture 3 hrs., Lab. 2 hrs. 1.5 Design Cr. Cr 4.

**ELE 343 Electronics II**

Analysis and design of multistage amplifiers. Principles of operation of analog and digital integrated circuit building blocks. Applications in signal generation, amplification, and waveshaping. Topics include differential, multi-stage, and power amplifiers; frequency response of transistor amplifiers; feedback amplifiers and oscillators; operational amplifiers and applications; I.C. logic families. Prerequisites: ELE 342 or equivalent, SPICE simulation. Lecture 3 hrs., Lab. 4 hrs. 3 Design Cr. Cr 4.

**ELE 351 Electromagnetic Fields**

Static electric and magnetic fields; properties of dielectric and ferromagnetic materials; time varying fields, Faraday's law, Maxwell's equations; plane waves in dielectric and conducting

media; calculation of the fields and other properties of common transmission lines. Prerequisites: MAT 252, PHY 123. Lecture 3 hrs. Cr 3.

**ELE 362 Materials Science**

Concepts of relationships between structure, composition and thermal, optical, magnetic, electrical and mechanical properties of metals, ceramics, glasses and polymers. Prerequisites: MAT 153, CHY 115 or permission. Cr 3.

**ELE 394 Electrical Engineering Practice**

Work experience in electrical engineering. An opportunity for students to obtain credit for a project or study sequence completed while employed. The activity must have both components of design and analysis and be pre-approved by the faculty. Prerequisite: sophomore standing. Cr 1-3.

**ELE 401, 402, 403 Design Project I, II, III**

Proposal, implementation, and reporting on a device or system to perform an engineering function. May be done individually or in small groups. Student selects or is assigned an advisor and with that advisor defines the project. Under the supervision of the advisor, the project is researched, designed, developed, and implemented. Oral and written reports are required. This is a three-semester sequence. Prerequisites: permission of department. (Semester 1) Completion of at least two 300-level electrical engineering courses including ELE 342 but not ELE 300. (Semester 2) Completion of at least five 300 and/or 400-level electrical engineering courses. 7 Design Cr. Cr 1, 4, 2.

**ELE 425 Control Systems**

Introduction to feedback control systems. Modeling and analysis of control systems using frequency response, root locus, and computer methods. Design and compensation of feedback control systems. Prerequisite: ELE 314 or permission. Lecture 3 hrs., Lab. 2 hrs. 1 Design Cr. Cr 4.

**ELE 442 Introduction to Digital VLSI Design**

Principles of internal circuit and layout design of digital VLSI circuits. Topics include NMOS and CMOS logic circuits, electrical and physical design of logic gates, chip layout rules, parasitics and performance estimation. CMOS technology is emphasized. Simulation, layout and electronic design automation tools are demonstrated and used. Prerequisites: ELE 172 and ELE 342. Lecture 3 hrs. 2 Design Cr. Cr 3.

**ELE 444 Analog Integrated Circuits**

Topics in the internal circuit design and system applications of analog integrated circuits; current sources, differential amplifiers, level shifters, operational amplifiers, regulators, high frequency considerations; digital-to-analog and

analog-to-digital converters, phase-locked loops. Prerequisite: ELE 343. Lecture 3 hrs. 2 Design Cr.

#### **ELE 445 Digital Integrated Circuits**

Analysis and design of digital integrated circuits. Principles of silicon I.C. fabrication. Structure, characteristics and models of integrated circuit components. Nonlinear and charge control models for transistors. MOS logic families: PMOS, NMOS, CMOS. Bipolar logic families: DTL, TTL, Schottky TTL, ECL, I<sup>2</sup>L. Layout design and parasitics. Performance limitations and comparison of logic families. Interfacing. Regenerative circuits. Memory circuits. Prerequisites: ELE 262, ELE 343. Lecture 3 hrs. Cr 3.

#### **ELE 463 Solid State Electronic Devices**

The theory of selected solid state electronic devices and an introduction to device fabrication technology. Devices studied include bipolar junction-based structures, MOS and optoelectronic devices. An occasional laboratory period may be substituted for equivalent class time. Prerequisite: ELE 262. Lecture 3 hrs. 1 Design Cr. Cr 3.

#### **ELE 464 Microelectronics**

Design principles and fabrication techniques of hybrid and monolithic integrated circuits. Diffusion, epitaxial growth, oxidation and photolithographic processes. Occasional laboratory periods may be substituted for equivalent class time. Prerequisite: ELE 463. Lecture 3 hrs. 1 Design Cr. Cr 3.

#### **ELE 471 Microprocessor Systems**

The organization of microprocessor-based computers. Microprocessor architecture and operation; buses and system concepts; memory system organization and operation; software and programming; instruction formats and addressing modes. Input-output concepts: programmed I/O, interrupts. Microprocessor arithmetic. Prerequisites: ELE 172, 271. Lecture 3 hrs. 1 Design Cr. Cr 3.

#### **ELE 475 Sequential Logic Systems**

Methods of design and testing of logic systems with memory. Algorithmic approaches to digital system design. Microprogramming. Arithmetic algorithms and implementations. Organization and design of a simple digital computer. Prerequisite: ELE 172. Lecture 3 hrs. 1 Design Cr. Cr 3.

#### **ELE 483 Communications Engineering**

Basic principles of modern communication engineering. Analog and digital signals and systems; analysis methods. Modulation techniques: AM, FM, and carrier modulation of digital signals. Baseband signaling and coding. Noise in communication systems. Prerequisites: MAT 350, ELE 314. Lecture 3 hrs. Cr 3.

#### **ELE 486 Digital Signal Processing**

Basic principles of processing digital signals. Sampling and quantization. Time and frequency domain representation and analysis of discrete-time signals and systems. FIR and IIR systems. Digital filter design; review of classic analog filter design (Butterworth, Chebyshev). Quantization and finite-precision effects. DSP hardware. Computers will be used to design and realize various signal processors. Prerequisites: ELE 314, COS 160 or equivalent. Lecture 3 hrs. Cr 3.

#### **ELE 497 Independent Study**

An opportunity for the student to explore topics not covered in available courses or to pursue a topic of interest in-depth. By prearrangement with a faculty member. Cr 3.

#### **ELE 498 Selected Topics in Electrical Engineering**

Topics in electrical engineering not regularly covered in other courses. The content can be varied to suit current needs. The course may, with permission of the department, be taken more than once. Prerequisite: Permission of the Department. 0-2 Design Cr. Cr 1-3.

*The following are engineering courses in the first two years of civil and mechanical engineering. MEE 230 is a required course in the electrical engineering program.*

#### **MEE 150 Applied Mechanics: Statics**

A study of force systems and equilibrium, structural models, friction, distributed forces. Designed to develop the ability to analyze and solve engineering problems. Prerequisites: MAT 152D and 1 semester of physics. Lecture 3 hrs. Cr 3.

#### **MEE 230 Thermodynamics I**

Energy and energy transformations, the First and Second Laws applied to systems and to control volumes, thermodynamic properties of systems, availability of energy. Prerequisites: MAT 153, PHY 121K. Lecture 3 hrs. Cr 3.

#### **MEE 251 Strength of Materials**

The principles of solid mechanics and their applications to practical problems, stresses and deflections in axial loading, torsion, beams, columns, combined stresses. Prerequisites: MEE 150, MAT 153. Lecture 3 hrs. Cr 3.

#### **MEE 270 Applied Mechanics: Dynamics**

Motion of particles and rigid bodies, impulse and momentum, work and energy and simple harmonic motion, force, mass and acceleration. Prerequisites: MEE 150, MAT 252. Lecture 3 hrs. Cr 3.



# Department of Technology

*Chair of the Department:* Andrew Anderson, 205A Technology Center, Gorham  
*Associate Professors:* Anderson, Carter, Faulkner, Kirk, W. Moore, Nannay, Zaner; *Assistant Professor:* Walker; *Adjunct Assistant Professor:* Early

Technology is the study of the creation and utilization of adaptive systems including tools, machines, materials, techniques, and technical means, and the relation of the behavior of these elements and systems to human beings, society, and the civilization process. Technological concepts are presented through a variety of approaches including the lecture, technical laboratories, field experiences, industrial visitations, and cooperative programs.

The curricula of the Department of Technology provide a blend of academic, technical, and professional courses designed to prepare individuals for careers in teaching or leadership positions in business and industry. Several degree programs leading to a bachelor of science degree are offered by the Department of Technology. Each program is designed to meet the educational needs of students with a variety of backgrounds and career aspirations.

The following two programs are designed for these students who are interested in teaching as a career.

## ***Technology Education (TCE)***

Technology education teachers help students learn about industry and technology by working with the tools, machines, materials, and processes of manufacturing/construction, energy, transportation, and graphic communication industries. They help youth to learn to design, plan, and create useful articles from different materials; discover their abilities and talents; learn more about how to select, buy, and care for the products of industry; and develop problem-solving skills.

The technology education teacher may teach in a general laboratory of technology or in specific laboratories such as manufacturing/construction, energy/controls, or graphic communications. General programs are usually taught in the elementary and junior high schools while more focused programs are common at the secondary school level.

## ***Applied Technical Education (ATE)***

Graduates of the applied technical education program can expect to find teaching opportunities in schools and organizations such as secondary vocational-technical schools, post-secondary schools (community, junior, agricultural and technical colleges), adult continuing education, departments of correctional services, departments of mental hygiene and health, private trade schools, industrial training programs, apprenticeship programs, training programs, armed forces training programs, and vocational-technical teaching.

Typical occupational areas for which teaching opportunities exist include automotive services, air conditioning and refrigeration, building construction trades, drafting, electrical/electronics, food services, metal trades, maintenance and repair services, and health and personal services.

Certification for teaching applied technical education requires a minimum of three years of occupational experience.

For those students interested in careers in technology supervision, management, and leadership, the following two programs are appropriate.

## ***Industrial Technology (INT)***

Industrial technologists are technically oriented management professionals who develop, manage, and control production and manufacturing systems. Graduates of the program assume leadership positions in a wide range of business and industrial organizations. They play a crucial role in optimizing organizational productivity.

Students can elect to pursue the general program or one of the concentrations available within the industrial technology degree program. The available concentrations are:

### *Industrial Technology*

The general industrial technology degree program is designed to meet the need for technically oriented management professionals who develop, manage, and control production and manufacturing systems.

### *Industrial Technology–Manufacturing Concentration*

This concentration is designed to prepare manufacturing professionals to develop and apply contemporary manufacturing techniques in a broad variety of industries. It provides significant coursework in technical subject areas of the program leading to increased technical specialization.

### *Industrial Technology–Environmental Safety and Health Concentration*

This concentration is designed to provide qualified individuals with the knowledge needed to meet the demands of modern day environmental policy and practice. The program provides significant coursework in technical subject areas and environmental safety and health.

Industrial technology programs offer two different options for acquiring the technical background required for the degree. The options are:

#### *Option I: Skill Development*

Designed to prepare individuals without prior occupational experience. A general technical background is developed through completion of technical courses and internships designed for traditional students seeking entry positions in business and industry.

#### *Option II: Occupational Assessment*

Designed to assist practicing technicians in advancing to leadership positions. Technical proficiency is or has been gained via associate degrees, military training, occupational experiences, apprenticeships, or some combination of the above. Technical courses are available to supplement and complement expertise. Option II is designed for nontraditional students seeking career enhancement.

### *Applied Technical Leadership (ATL)*

This program is designed to provide career ladder opportunities for personnel employed in a variety of technically oriented career fields such as fire science, law enforcement, medical technology, office occupations, and the service industry.

Technical and professional competencies are gained via associate degrees, military training apprenticeships, occupational experience or some combination of the above.

Prior learning assessment is available.

### *Admission Requirements (All programs)*

Students must meet all University of Southern Maine admission requirements. Prospective students are required to interview with the Department chair, a program coordinator, or another program representative. Résumés are expected from students applying to the Industrial Technology Option II, Applied Technical Education, and Applied Technical Leadership majors.

All students must meet University Core curriculum requirements and additional departmental requirements. Specific requirements for bachelor of science degree programs offered through the Department of Technology are indicated in the tables starting on page 241.

*Teaching*

Bachelor of science in technology education (TCE) - 127 Credits

Bachelor of science in applied technical education (ATE) - 121 Credits

Technology education majors must have a 2.5 cumulative grade point average to enroll in the professional sequence courses: ATE 380, ATE 381, ATE 402, and EDU 324. No more than one D grade will be accepted in the technical and professional courses required of the technology education program.

*Non-teaching*

Bachelor of science in industrial technology (INT Options I and II) – 127 credits

- with manufacturing concentration (Options I and II) – 127 credits
- with environmental safety and health concentration (Options I and II) – 127-130 credits

Bachelor of science in applied technical leadership – 121 credits

UNIVERSITY CORE – 34 CREDITS TEACHING MAJORS	TCE	ATE
<b>BASIC COMPETENCY – 9 CREDITS</b>		
C – English	X	X
D – Quantitative Decision Making	X	X
E – Reasoning	X	X
<b>FINE ARTS – 6 CREDITS – Different Departments</b>		
F – Performance Centered	X	X
G – History Centered	X	X
<b>HUMANITIES – 6 CREDITS – Different Prefixes</b>		
H – Literature	X	X
I – Times/Culture	X	X
<b>SOCIAL SCIENCES – 6 CREDITS – Different Departments</b>		
J – Human Growth & Development	X	X
J –	X	X
<b>NATURAL SCIENCES W/LAB – 4 CREDITS</b>		
K – With Lab	PHY	*
<b>CORE – 3 CREDITS – May substitute for University Core Requirement</b>		
Interdisciplinary	X	X
<b>TOTALS</b>	<b>34</b>	<b>34</b>
* University Natural Science K PHY = Physics		

UNIVERSITY CORE – 34 CREDITS NON-TEACHING MAJORS	INT Opt I & Opt II	INT MFG	INT ES&H Opt I & Opt II	ATL
<b>BASIC COMPETENCY – 9 CREDITS</b>				
C – English	X	X	X	X
D – Quantitative Decision Making	X	X	X	X
E – Reasoning	X	X	X	X
<b>FINE ARTS – 6 CREDITS – Different Departments</b>				
F – Performance Centered	X	X	X	X
G – History Centered	X	X	X	X
<b>HUMANITIES – 6 CREDITS – Different Prefixes</b>				
H – Literature	X	X	X	X
I – Times/Culture	X	X	X	X
<b>SOCIAL SCIENCES – 6 CREDITS – Different Departments</b>				
J – Economics I	X	X	X	X
J –	X	X	X	X
<b>NATURAL SCIENCES W/LAB – 4 CREDITS</b>				
K – With Lab	PHY	PHY	CHEM	*
<b>CORE – 3 CREDITS – May substitute for University Core Requirement</b>				
Interdisciplinary	X	X	X	X
<b>TOTALS</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>34</b>
* University Natural Science K PHY = Physics CHEM = Chemistry				

DEPARTMENTAL REQUIREMENTS – 18 CREDITS TEACHING MAJORS	TCE	ATE
<b>SCIENCE/MATH – 12 CREDITS</b>		
Mathematics	X	X
Statistics	X	X
Computer Science	X	X
Natural Science	*	X
<b>GENERAL ELECTIVES – 6 CREDITS</b>		
Academic/Professional/Technical	X	X
Academic/Professional/Technical	X	X
<b>TOTALS</b>	<b>18</b>	<b>18</b>
* Physics or Chemistry		

DEPARTMENTAL REQUIREMENTS – 18 CREDITS NON-TEACHING MAJORS	INT Opt I & Opt II	INT MFG	INT ES&H Opt I & Opt II	ATL
<b>SCIENCE/MATH – 12 CREDITS</b>				
Mathematics	X	X	X	X
Statistics	X	X	X	X
Computer Science	X	X	X	X
Physics or Chemistry	X	X	BIO	SCI
<b>GENERAL ELECTIVES – 6 CREDITS</b>				
Academic/Professional/Technical	X	X	X	X
Academic/Professional/Technical	X	X	X	X
<b>TOTALS</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>
<b>BIO = Biology</b>				
<b>SCI = Science</b>				

<b>TECHNICAL REQUIREMENTS</b>	<b>TCE</b>	<b>INT Opt I</b>	<b>INT MFG</b>	<b>INT ES&amp;H Opt I</b>	<b>INT ES&amp;H Opt II</b>
ITT 102 – Intro to Industrial Technology	X	X	X	X	
ITT 103 – Materials Properties & Testing	X	X	X	X	
ITT 181 – Intro to Computers in Industry	X	X	X	X	
ITT 211 – Electronics Technology	X	X	X	X	
ITT 221 – Power Systems	X	X	X	X	
ITT 231 – Technical Graphics	X	X	X	X	
ITT 241 – Graphic Communication	X	X	X	X	
ITT 251 – Material Processes - Metals	X	X	X	X	
ITT 261 – Material Processes - Woods	X	X	X	X	
ITT 271 – Material Processes - Polymers	X	X	X	X	
ITT 282 – Comp. Aided Draft. & Design (CADD)	X	X	X	X	
ITT 453 – Comp. Aided Manufacturing (CAM)			X		
Senior Capstone			X		
<b>TECHNICAL ELECTIVES</b>	12	6	15		
<b>TOTALS</b>	<b>45</b>	<b>39</b>	<b>54</b>	<b>33</b>	<b>*</b>
<b>CAPSTONE EXPERIENCES – 6 CREDITS</b>					
ITS 420 – Ergonomics Practicum				3	3
ITS 430 – Environmental Practicum				3	3
<b>* SEE OCCUPATIONAL COMPETENCY</b>					

<b>OCCUPATIONAL COMPETENCY</b>	<b>ATE</b>	<b>ATL</b>	<b>INT Opt II</b>	<b>INT ES&amp;H Opt II</b>
ITT 400 – Occupational Experience	*	*	*	*
ITT 440 – Related Occu. Exp./Internships	*	*	*	*
Associate Degree Transfer	*	*	*	*
Technical Courses	*	*	*	*
Military	*	*	*	*
Combination	*	*	*	*
<b>TOTALS</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>30</b>
<b>* AVAILABLE</b>				

<b>PROFESSIONAL REQUIREMENTS – TEACHING</b>	<b>TCE</b>	<b>ATE</b>
ATE 180 – Technology in Perspective	X	
ATE 280 – Facility Organization & Management	X	X
ATE 300 – Occupational/Trade Analysis		X
ATE 312 – Teaching Students With Special Needs	X	X
ATE 350 – Philosophy of Vocational Education		X
ATE 380 – Curriculum Development	X	X
ATE 381 – Methods/Materials of Instruction	X	X
ATE 411 – Measurement & Evaluation	X	X
ATE 402 – Student Teaching (6 Credits)		X
EDU 324 – Student Teaching (12 Credits)	X	
Elective		X
<b>TOTALS</b>	<b>30</b>	<b>30</b>

<b>PROFESSIONAL REQUIREMENTS NON-TEACHING</b>	<b>INT Opt I &amp; Opt II</b>	<b>INT MFG</b>	<b>INT ES&amp;H Opt I &amp; Opt II</b>	<b>ATL</b>
ITP 210 – Technical Writing	X	X	X	X
ITP 280 – Industrial Organization & Mgt.	X	X		X
ITP 300 – Ergonomics/Time Study	X	X	X	X
ITP 310 – Plant Layout & Material Handling	X	X		
ITP 320 – Occupational Safety & Health	X	X	X	X
ITP 330 – Production Control	X	X		
ITP 340 – Fundamentals of Quality	X	X		X
ITP 350 – Conference Leading	X		X	X
ITP 381 – Human Resource Dev. in Industry	X			X
ITP 390 – Cost Analysis & Control	X			
ITS 321 – Work Place Design/Ergonomics			X	
ITS 331 – Basic Toxicology			X	
ITS 332 – Industrial Hygiene			X	
ITS 334 – Environmental Air Quality			X	
ITS 341 – Environmental Policies			X	
ITS 342 – Loss Control Management			X	
ITS 344 – Admin. Accountability & Tracking			X	
ITS 346 – Hazardous Waste Systems/Mgt.			X	
ITS 421 – Process/System Hazard Analysis			X	
ABU 111 – Principles of Accounting I	X			X
ECO 202J – Principles of Economics	X			X
Elective				X
<b>TOTALS</b>	<b>36</b>	<b>21</b>	<b>39</b>	<b>30</b>

### **Laboratory Fees**

Laboratory fees to cover the cost of materials and supplies are assessed in ITT courses.

**ATE 180 Technology in Perspective**

An introduction to the development of technology and technological systems in historical, cultural, and environmental context. Students will develop a personal philosophy of technology and its relation to culture and the environment; and understand the nature of both historic and contemporary technology and technological systems. Cr 3.

**ATE 280 Facility Organization and Management**

A course in which the student will develop an understanding of the administrative principles and practices which provide for highly effective instruction in industrial, vocational, and technical classrooms and laboratories. Students will organize systems for personnel supervision and accountability; organize personnel and maintenance systems; develop and employ a safety education program in compliance with state of Maine and OSHA regulations; develop and employ an organized budget/procurement schedule; and design and implement a contemporary laboratory/workplace environment. Cr 3.

**ATE 300 Occupational and Trade Analysis**

Identification of occupational or trade fields, units, operations, and items of related information. Cr 3.

**ATE 312 Teaching Students with Special Needs**

A foundational requirement providing technical managers, vocational instructors, and technology educators with a fundamental understanding of the federal legislation regarding special needs, its implementation in the workplace and learning environment. Students will be aware of federal legislation and its implications in the related environment; identify and diagnose exceptional individuals; provide appropriate materials for exceptional individuals; modify working and learning environments; and monitor, assess, and advise exceptional individuals in the working and learning environment. Cr 3.

**ATE 320 Coordination of Cooperative Education**

The role of the coordinator in organizing and conducting a program of work-study experience in high school. Introduction to cooperative half-time training, community survey, advisory committees, laws and regulations; and examination of the responsibilities and activities of the coordinator. Cr 3.

**ATE 350 Philosophy of Vocational Education**

A survey of the history and philosophy of vocational education in the United States with emphasis upon recent developments. Cr 3.

**ATE 380 Curriculum Development**

A course in the identification and development of curriculum materials focusing on the techniques needed to develop units and courses of study. Students will analyze the instructional situation; develop educational goals and objectives; identify educational activities to achieve those objectives; identify evaluation activities related to the objectives; specify subject content for the course; schedule unit and course activities; and locate resources to support the instruction. Prerequisite: ATE 300 for ATE majors. Cr 3.

**ATE 381 Methods and Materials of Instruction**

A course of study in which the students are introduced to the various teaching methods and techniques of professional and effective practitioners. Students will develop their own learning and teaching styles. Included in this course are the procurement/creation and utilization of contemporary instructional equipment and teaching materials. Students will evaluate, prepare, and utilize appropriate, relevant instructional materials; plan, prepare, and present lessons; promote effective student use of the learning environment; and organize objectives, develop teaching plans, and evaluate measures of learning. Cr 3.

**ATE 402 Student Teaching**

Full-time student teaching during the senior year is provided for one semester under direct supervision in off-campus situations for all who meet requirements. Prerequisite: satisfactory completion of Professional Requirements and advisor's permission. Cr 6.

**ATE 411 Measurement and Evaluation**

A course in educational measurement and evaluation, focusing on teacher made achievement and performance tests, and grading. Students will examine the characteristics of effective evaluation instruments and grading systems; evaluate various types of measurement instruments; develop and effectively use evaluation instruments; and create and use effective competency-based and norm-referenced grading systems. Cr 3.

**ATE 420 Trends in Contemporary Vocational Education**

Identification, analysis, and discussion of major problems and trends in vocational education. Cr 3.

**ATE 450 Local Administration and Supervision of Vocational Education**

Procedures and practices utilized in establishing, promoting, coordinating, supervising, controlling vocational programs on the local level. Cr 3.



### **ATE 460 Independent Study in Vocational Education**

An opportunity to pursue independently a topic, project, or experiment of interest. Students will prepare a contract or proposal for study to be conducted and, upon completion, submit findings in a scholarly report or other evidence of completeness. Permission of advisor. Cr 3.

### **ITP 210 Technical Writing**

A basic study of techniques used in technical fields to communicate in writing. Study includes document purpose, situation analysis, style, format and production of reports, proposals, procedure sheets, technical descriptions, forms, letters, memos, and visual aids. Prerequisite: USM English and writing proficiency requirements must have been met. Cr 3.

### **ITP 280 Industrial Organization and Management**

An introduction to industrial organization and management. A study of the common elements of industry as it relates to the areas of research and development; industrial relations; production; financial control; marketing; and labor. Management practices will be highlighted. Emphasis will also be placed upon contemporary issues/problems/trends associated with a global economy. Cr 3.

### **ITP 300 Ergonomics/Time Study**

A study of how the human body interacts with a workplace while performing human activity. Surface electromyography measurement techniques are employed in measuring stress on the human body in an effort to eliminate cumulative trauma disorders. Time measurement techniques are employed in the development of time standards. Cr 3.

### **ITP 310 Plant Layout and Material Handling**

A study of facility and workplace design. Emphasis will be on efficient layout and material flow through manufacturing, warehousing, and service facilities with attention given to the resulting impacts on product and process quality and environmental factors. Cr 3.

### **ITP 320 Occupational Safety and Health**

This is an introductory course providing input into the importance of safety and health in the workplace. Emphasis will be placed on the worker, his/her work environment including such special emphasis areas as OSHA and other regulatory agencies, hygiene, hazard identification, machine safeguarding, hazardous waste, loss control, and other areas of concern. Cr 3.

### **ITP 330 Production Control**

Lectures, discussions, and problems dealing with the principles and practices of production

and inventory control. Study includes information flow, forecasting, scheduling, capacity planning, material requirements planning, shop floor control, economic order quantities, order point analysis, ABC analysis, line balancing, project scheduling and just-in-time techniques. Cr 3.

### **ITP 340 Fundamentals of Quality**

An overview of fundamental concepts and principles of quality control. The course will cover techniques utilized from the simplest products test to process control engineering and will include incoming material control, inspection sampling and quality control management. The course will cover practical application for installing quality control systems using actual case studies developed by participants. Cr 3.

### **ITP 350 Conference Leading**

A course in philosophy and techniques of organizing and conducting successful conferences. Each participant will assume the responsibility of planning, organizing, and leading meetings, conferences, and seminars. Cr 3.

### **ITP 381 Human Resource Development in Industry**

An introduction to the development of human resources in industrial settings. Students are introduced to the organizational environment and the various functions of human resource management. Topics covered include human resource developments and requirements, training and development, compensation management, job analysis and classification, employee management relations, and other pertinent functions. Students become involved in career development for possible preparation of a portfolio of their prior learning and work experience. Cr 3.

### **ITP 390 Cost Analysis and Control**

The study and practical application of cost predictions. The forecasting tools used in expenses and investment for products will be examined. Major areas include direct labor and material, burdened factory labor, and overhead. Project work includes demonstrated knowledge of phases in the forecasting cycle with a focus towards accuracy. Cr 3.

### **ITS 321 Workplace Design Ergonomics**

This course has been developed to educate the student in the use of ergonomic principles as they apply to the design/redesign of workstations as they exist in all types of working environments. Muscular stress measurements will be taken on the human body to establish base line stress levels for various jobs and later compared to redesigned jobs to verify the significance of the change. State-of-the-art surface electromyography techniques and equipment

will be used in both laboratory and field applications. Prerequisites: ITP 300 and ITP 320. Cr 3.

### **ITS331 Basic Toxicology**

Basic toxicology is a course designed to introduce students to physical and health hazards in the environment and to teach the basic concepts of comparative toxicology. Students will concentrate on hazards, target organs, routes of entry, toxicology concepts/terminology, and how chemicals are classified for toxicity, indexing, and referencing chemicals as well as chemical toxicity recognition. Prerequisite: ITP 320.

Cr 3.

### **ITS332 Industrial Hygiene**

This course will cover the general concepts and principles of industrial hygiene with direct application to workplace environments. Direct topic coverage will include: common health hazards, air contaminants, biological hazards, an introduction to air quality, noise, respiratory control, ventilation, hygiene sampling equipment/techniques, OSHA, and related standards. Prerequisite: Chemistry with lab.

Cr 3.

### **ITS334 Environmental Air Quality**

The emphasis of the course will be on indoor air quality topics and will scan outdoor air quality topics. The course content will cover contaminants in the environment, employee problems and/or reactions to contaminants, sampling and analysis of pollutants, how contaminants/pollutants travel within facilities, and regulation/control methods commonly utilized. Prerequisites: ITP 320 and ITS 332.

Cr 3.

### **ITS341 Environmental Policies**

This course is designed to introduce the student to the major environmental laws issued by local, state, and federal governments. Major topics will include: legislation on clean air, hazardous waste, controlling water pollution, regulation of heavy metals, etc. Strategies for being in compliance and dealing with various agencies (local, state, and federal), including enforcement actions, will be covered.

Cr 3.

### **ITS344 Administrative Accountability and Tracking**

A course structured to assist management level personnel in administering a company safety and health system. Course content will center around: existing management principles, the assessment of needs, systems development, assigning responsibilities, program tracking/oversight, and evaluation methodology. Prerequisites: ITP 320 and ITS 342.

Cr 3.

### **ITS346 Hazardous Waste Systems/Management**

Management skills necessary to bring an employer into compliance are covered in this

course. The course covers management understanding of state and federal regulations, such as EPA, OSHA, RCRA, and DOT. Topics will include types of generators, filing methods and regulations for generators, hazardous waste/materials, cataloguing systems used, how wastes are stored, transportation methods, and training requirements. Prerequisites: ITP 320 and ITS 331.

Cr 3.

### **ITS420 Ergonomic Practicum**

This course places the senior level student in the workplace for the purpose of completing his/her study of ergonomic principles. The opportunity to apply the materials covered in ergonomics/time study and workplace design ergonomics now can be put into practice. Students will be placed at various work site locations and will be assigned an ergonomic project within each site. To be included in the project are problem identification, hazard analysis, and problematic corrective actions. Each student practicum will be assigned a faculty advisor. Prerequisites: ITP 300, ITS 321, and senior level status.

Cr 3.

### **ITS421 Process Systems Hazard Analysis**

This advanced course provides management and application skills needed to better control hazards as they relate to industrial processes which are system structured. Key areas focus around hazards of materials (chemicals) used in systems, equipment design, operating standards, and methods used to identify, analyze, and evaluate process systems. Prerequisite: ITP 320.

Cr 3.

### **ITS430 Environmental Practicum**

This course places the senior level student in the workplace for the purpose of completing his/her study of environmental principles. The opportunity to apply the materials covered in environmental policies, basic toxicology, industrial hygiene, and environmental air quality now can be put into practice. Students will be placed at various work site locations and will be assigned an ergonomic project within that site. To be included in the project are problem identification, hazard analysis, and problematic corrective actions. Each student practicum will be assigned a faculty advisor. Prerequisites: ITS 332, ITS 331, ITS 341, and senior level status.

Cr 3.

### **ITSX342 Loss Control Management**

This course is about the risk management process, the steps it involves, and the administrative aspects of carrying it out. Students will learn how to analyze the exposures to accidental losses facing individuals and organizations; describe, analyze and apply alternative risk management techniques; develop, justify, and apply decision rules for choosing risk manage-

ment techniques; and apply a practical analysis or risk/loss management techniques through the study of Maine's workers' compensation system. Prerequisite: ITP 320/equivalent or instructor permission. Cr 3.

### **ITT 102 Introduction to Industrial Technology**

An introductory study of industrial technology. Course emphasis is on developing an understanding of basic concepts and functions of industry, the application of technology in industry, and the design and production of industrial products. Cr 3.

### **ITT 103 Materials Properties and Testing**

A study of the basic properties of industrial materials, their structures, and testing procedures used to determine those properties. Studies include physical, mechanical, optical, chemical, thermal, and electrical properties. Testing, associated literature research, reporting procedures, calculation, and measurement are also included. Cr 3.

### **ITT 181 Introduction to Computers in Industry**

An introduction to current and emerging computer applications utilized in industry and technology. The course includes an overview of basic computer hardware and operation, and an introduction to general application software. Emphasis is on computer terms, concepts, and the integration of activities, including word processing, spreadsheets, graphics, and communication. The course focuses on computer use as it relates to management, design and analysis, production, communication, and related industrial applications. Lecture and lab. Cr 3.

### **ITT 211 Electronics Technology**

A study of the fundamental concepts, devices, and applications of AC and DC circuit theory with an introduction to semiconductor theory. Use of laboratory test equipment and circuit construction is included. Cr 3.

### **ITT 221 Power and Energy Conversion Systems**

An introduction to the broad field of power. Power is examined from its relationship to energy and electro-mechanical devices. Laboratory experiences include design and construction, testing and evaluation of electro-mechanical devices and power systems. Cr 3.

### **ITT 231 Technical Graphics**

Concepts and practice with spatial relationships and visualization techniques. Basic skill development and understanding taught through free-hand illustrations as well as conventional instruments and devices. Multiview projections, pictorial techniques, detail and assembly work-

ing drawings, and reproduction techniques. Contemporary industrial practices and processes. A basis for CADD/CAM. Cr 3.

### **ITT 241 Graphic Communications**

A comprehensive study of technologies associated with the creation, duplication, conversion, storage/retrieval, and transmission of graphic images. Included are laboratory activities involving the design, development, and production of graphic materials utilizing current and emerging graphic reproduction techniques. Lecture and lab. Cr 3.

### **ITT 251 Material Processes—Metals**

A laboratory course consisting of the study of manufacturing processes including computer integrated manufacturing which represent today's metal manufacturing industries. Processes covered include material identification; material removal—manually and with CNC; forming/shaping; deformation; casting; fastening/joining; heat treatment; finishing; and associated measurement/calculations. Lab activity involves these processes in manufacturing of products. Prerequisites: ITT 102, ITT 103, ITT 231, or instructor permission. Cr 3.

### **ITT 261 Material Processes—Woods**

The processing of wood and wood related composites as they relate to manufacturing and construction. Laboratory experiences will follow assigned sets of problem-solving criteria provided by the instructor. In turn the student will design around the provided criteria and design prototypes using standard methods and processes utilized in industry. Prerequisites: ITT 102, ITT 103 or instructor permission. Cr 3.

### **ITT 271 Material Processes—Polymers**

A study of basic plastic technology and problem solving related to plastic materials and processes. Topics include identification and properties of plastic materials, basic processing methods, product design, and process research. Cr 3.

### **ITT 282 Computer-Aided Drafting and Design (CADD)**

An introduction to computer-aided drafting and design systems and their relationship to design, drafting, production, and documentation processes. Emphasis is on understanding and utilizing computer-aided drafting and design (CADD) hardware and software. The course focuses on basic 2D and 3D functions as they generally apply to most computer-aided drafting and design applications. Lecture and lab. Prerequisite: ITT 181/equivalent or instructor permission. Cr 3.

### **ITT 311 Communication Electronics**

A detailed study of communication circuits and

applications; including AC-DC fundamentals for communication, device theory and circuits, power supplies and communication systems. Laboratory sessions focus on equipment use and measurement of circuit parameters on student assembled receivers. Prerequisite: ITT 211 or instructor permission. Cr 3.

### **ITT 323 Control Systems**

The study of instruments, controls, and sensory devices used to monitor and control industrial processes. Emphasis is placed on design, operation, utilization, and troubleshooting of industrial control systems. Prerequisite: ITT 211 or instructor permission. Cr 3.

### **ITT 331 Engineering Design Graphics**

Contemporary industrial design practices and techniques as they relate to consumer products. Emphasis will be on design criteria selection and implementation employing standard scientific procedures. Both individual and team assignments will be used. Prerequisite: ITT 231 or instructor permission. Cr 3.

### **ITT 332 Architectural Drawing and Design**

Basic architectural design and drawing as related to residential and light construction. A detailed set of plans for a single home will be executed. Construction techniques, environmental considerations, building materials, specifications, costs and financing, codes and zoning, schedules, and energy consumption factors. Prerequisite: ITT 231 or equivalent or instructor permission. Cr 3.

### **ITT 334 Energy Efficient Residential Design**

Contemporary residential design criteria and practices, logically presented in both conceptual and practical format with emphasis on energy efficiency without sacrificing aesthetics. Problems will be worked in class as well as outside. Final design results will be analyzed using a special computer program. Topics include: solar strategies, insulation techniques, air-vapor retarders, indoor air quality, heating systems, glazing, lighting, cooling, ventilation, domestic hot water, and economic issues. Cr 3.

### **ITT 342 Advanced Graphic Communications**

A study of graphic communications industries with an emphasis on offset lithographic print production. Laboratory experiences include design, copy preparation, photographic and electronic conversion, film assembly, platemaking, and press production processes. Computer and photographic techniques for copy preparation, line and halftone conversion, and color separation are also included. Lecture and lab. Prerequisite: ITT 241 or instructor permission. Cr 3.

### **ITT 343 Communications Design**

An introduction to the principles of design and layout in the development of copy for graphic reproduction. Emphasis is on a design process, design principles, computer-based desktop publishing and related design tools, computer and photographic techniques as they apply to design, cost analysis, and preparation of production specifications. Prerequisite: ITT 241 or equivalent or instructor permission. Cr 3.

### **ITT 351 Machining and Fabrication**

A study of metal industries concerned with electric, TIG, MIG, and gas welding and machining techniques including computer numerical control. Students will design and fabricate useful products using the above mentioned processes. Prerequisite: ITT 251 or instructor permission. Cr 3.

### **ITT 352 Fabrication and Forming**

A study of fabrication and forming techniques used in the production of metal products manufactured in today's industry. Sheet metal processes and metal casting processes will be covered as well as various welding assembly techniques. Prerequisite: ITT 251 or instructor permission. Cr 3.

### **ITT 361 Production Manufacturing in Wood**

Production and wood manufacturing problems including production planning, mass production, jigs, fixtures, special machine operations, CNC application, CADD development, and advanced finishing techniques. General maintenance procedures on production equipment. Group and individual research assignments and related technical problems. Prerequisite: ITT 261 or instructor permission. Cr 3.

### **ITT 362 Residential Construction**

A study of the residential construction industries including construction principles, computer cost estimating, insight into energy efficient building design, layout, foundation, framing, exterior covering, and finish. Related areas of services, plot planning, earth-moving principles considered in research activities. Group and individual problems. Prerequisite: ITT 261 or instructor permission. Cr 3.

### **ITT 383 Robotics**

An introduction to the technology, nomenclature, integration and application of automated manufacturing/robotics and their associated systems. This course provides a 'working knowledge' for any individual interested in automated manufacturing/robotics. Prerequisite: ITT 221 or instructor permission. Cr 3.

### **ITT 400 Occupational Competency**

This course is designed to allow credit for technical expertise learned on the job or through

attendance at appropriate/related schools, workshops, and/or seminars. The student's technical knowledge and skill must be documented through the University's portfolio assessment procedures. See your advisor for further information. Cr 1-45.

#### **ITT 413 Instrumentation**

A study of instruments and sensing devices used to monitor, observe, and/or control industrial processes. Laboratory and field experiences to research and construct instruments of interest to the student. Prerequisite: ITT 211 or instructor permission. Cr 3.

#### **ITT 414 Digital Electronics**

A study of the fundamentals of digital logic and logic systems. Laboratory experiences with typical digital circuits. Prerequisite: ITT 211 or instructor permission. Cr 3.

#### **ITT 423 Fluid Power**

A study of fluids at work. Investigation of the theory and application of hydraulics and pneumatics in technology and industry. Design, construction, diagnosis, and maintenance of fluid power devices and systems included. Cr 3.

#### **ITT 440 Related Occupational Experiences/Internships**

Approved employment with a company may qualify a student under this option. Arrangements must be approved by the advisor in advance. The experiences should provide opportunities for acquiring or updating technical skills and knowledge. Credit will be determined on the basis of one credit for each two full weeks of employment (80 hrs.) with a maximum of three credits for each period of approved continuous full-time employment. A daily log, summary report, and evaluation by an industrial supervisor will constitute part of this option. For additional information, consult with your advisor. Cr 1-3.

#### **ITT 444 Photographic and Electronic Reproduction**

A study of photographic and electronic methods of creating, manipulating, and reproducing monochrome, continuous tone, match and process color images. The course explores photographic and computer-based concepts, processes, and techniques for working with images and integrating those images into graphic designs. Prerequisite: ITT 241/equivalent or instructor permission. Cr 3.

#### **ITT 452 Metallurgy and Metrology**

A study of the properties of metals and how they are altered to meet industrial requirements. Measurements and testing of these properties along with inspection techniques and heat treatment activities will be performed. Individual and group activities will be conducted. Prerequisite: ITT 103, ITT 251, or instructor permission. Cr 3.

#### **ITT 453 Computer-Aided Manufacturing (CAM)**

This course is designed to provide students with basic understanding of computer control of machine tools. Manual programming at the machine controller, designing using EZ-MILL software, and computer code generation instruction will be given. Emphasis will be placed on the basics of CNC machining, practical approaches to solving machining problems, and hands-on activities with CNC. Prerequisite: ITT 282 or instructor permission. Cr 3.

#### **ITT 490 Special Problems in Technology**

Provides upper-level students an opportunity to pursue independently a topic, project, or experiment of interest. Students will prepare a contract or proposal for study to be conducted and, upon completion, submit findings in a scholarly report or other evidence of merit. Prerequisite: Permission of instructor. Cr variable.

# School of Nursing

*Dean:* Patricia A. Geary

*Associate Dean:* Janet Z. Burson; *Chair of Undergraduate Nursing Program:* Marianne Rodgers; *Chair of Graduate Nursing Program:* Phyllis Healy; *Chair of Recreation and Leisure Studies:* William McCullough

## Faculty in Nursing Programs

*Professors:* Geary, MacPherson; *Associate Professors:* Burson, Fournier, Hastings-Tolsma, Healy, Johnson, Normandeau, Peake-Godin, Rodgers, Skoner, Thompson, Tiffany, Tukey, Woods Smith; *Assistant Professors:* Elliott, Keith, Moody, Vines; *Lecturer:* Casey

## Faculty in Recreation and Leisure Studies

*Associate Professors:* Meyer, McCullough; *Assistant Professors:* Martin, Willard; *Instructors:* Richeson, Wells; *Professor Emeritus:* Sullivan

The School of Nursing (SON) offers programs leading to baccalaureate or master's degrees in nursing and baccalaureate or associate degrees in therapeutic recreation. In addition, it offers a minor in health studies. Special study options are available for registered nurses seeking to attain a baccalaureate or master's degree in nursing and for students who hold a baccalaureate degree in another field who are interested in a master's degree in nursing. The SON is approved by the Maine State Board of Nursing and received an eight-year accreditation award by the National League for Nursing in 1988.

The goals of the School are to:

1. Provide nursing and therapeutic recreation education to a diverse student population within a state institution of higher education.
2. Prepare health professionals to respond to the health needs of the people of Maine.
3. Conduct and disseminate research as a means of increasing knowledge and improving practice.
4. Promote a model of practice based on the highest standards of humane and ethical professional conduct.
5. Provide professional service and consultation to the community and University in the areas of nursing, health, and therapeutic recreation.

## Department of Undergraduate Nursing

The undergraduate program prepares graduates to begin their nursing practice in a variety of health care settings and in a variety of specialty areas. They possess the foundation needed to assume beginning leadership and management positions and to begin graduate studies.

The undergraduate program requires the completion of 122-126 credits of study and culminates in a baccalaureate degree. Graduates are eligible to sit for State Board licensure exams upon completion of the program.

In addition to requirements established for admission to the University, the School of Nursing requires high school chemistry and biology with labs. See admission section of the catalog for further requirements.

Because so much of the undergraduate nursing program entails supervised clinical experience, the SON faculty reserves the right to limit enrollments. Admission to the baccalaureate program is highly selective. The process includes consideration of SAT scores, high school class rank, academic record, and references.

Any student enrolled in or seeking enrollment in SON courses must be advised by SON faculty. Transfer admission into the sophomore year of the nursing program is available on a limited basis according to the number of open seats. Admission is selective according to GPA and previous academic record. Transfer students must have a minimum GPA of 2.5 and have completed 30 credits which include college writing, anatomy and physiology,

### **Admission and Non-academic Requirements**

chemistry, general psychology, introduction to sociology, and human growth and development to be considered.

Because health care workers are at a higher risk for certain illnesses, all students must meet the health requirements of the School. These requirements are listed in the student handbook, available through the dean's office. Students must have at least 2 of 3 hepatitis B immunization injections prior to entry into Health Assessment and/or Fundamentals of Nursing. The total series of 3 must be completed prior to entry into clinical courses. Student health records must be on file in the School of Nursing prior to entry into clinical courses.

To cover lab costs, a \$10.00 lab fee is assessed for each seven-week laboratory course; a \$20.00 fee for each semester long laboratory course. Nursing majors must purchase uniforms and lab coats and must be certified in cardiopulmonary resuscitation (CPR) *prior to entry into clinical courses*. Since clinical experiences occur in a variety of settings in the southern Maine area, students must provide their own transportation to rural as well as urban areas. Students in the nursing major **must** carry health insurance; professional liability insurance is **highly** recommended.

## Academic Requirements

### *Prerequisites in the Integrated Curriculum*

Enrollment in nursing courses at the sophomore level is dependent on the successful completion of prerequisite requirements.

Prerequisite courses to the upper-division nursing major consist of competencies (English Composition, Quantitative Decision Making, Skills of Analysis/Philosophy), physical and behavioral sciences, humanities, and fine arts. Nursing students must achieve a 2.25 cumulative GPA at the end of their first year to be eligible to progress to NUR 209/210 or NUR 212/213. Grades below C- are not acceptable in prerequisite courses. For graduation, no more than 3 credits of non-nursing elective courses can be taken pass-fail and only one D grade in courses other than nursing or nursing prerequisites will be accepted.

### *Prerequisite Requirement Areas*

#### General Requirements for Graduation

English Composition	0-3 credits
Philosophy	3 credits
Humanities	6 credits
Fine Arts	6 credits
Statistics	3 credits
	<hr/>
	18-21 credits

#### Physical Science Requirements

Human Anatomy and Physiology and Lab	8-9 credits
Chemistry for the Health Professions and Lab	6 credits
Microbiology and Lab	4 credits
Human Nutrition	3 credits
Pathophysiology	3 credits
	<hr/>
	24-25 credits

#### Social Science Requirements

Introductory Psychology	3 credits
Introductory Sociology	3 credits
Human Growth & Development (life span preferred)	3 credits
	<hr/>
	9 credits

#### General Electives (can include nursing electives) and

COR course	18 credits
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### *Prerequisites in the SON Undergraduate Curriculum:*

The following courses must be taken before entry into sophomore level nursing laboratory courses (NUR 209/210 or NUR 212/213), in addition to having completed 30 credits.

*Course*

- English Composition
- Human Anatomy and Physiology and Lab
- Chemistry for the Health Professions and Lab
- Human Growth and Development
- Introductory Psychology
- Introductory Sociology

In addition to sophomore-level prerequisite courses, the following courses must be taken before entry into junior-level clinical nursing courses:

<i>Course</i>	<i>Prerequisites</i>
Philosophy	College Writing
Introduction to Nursing	
Pathophysiology	Anatomy/Physiology I & II
Microbiology and Lab	Organic Chemistry & Anatomy/Physiology I & II
Human Nutrition	Organic or Biochemistry; Anatomy/Physiology I & II
Health Assessment	I & II
Fundamentals of Nursing	Intro to Nursing & Anatomy/Physiology & Nutrition

In addition, Statistics must be completed before taking NUR 401, Health-related Research.

*Nursing Courses*

Nursing content at the upper division is organized to facilitate the integration of nursing knowledge and skill and to draw on a foundation of learning from other disciplines. Courses focus on the promotion, maintenance, and restoration of the health of clients. Students have experiences which involve assessment, planning, implementation, and evaluation of care for individuals of all ages, in families, groups of clients, and communities on all spectra of the health continuum. Inpatient and outpatient hospital settings, community health agencies, community settings, nursing homes, schools, and industries are used for clinical experience.

*Upper Division Nursing Courses*

NUR	301	Sociocultural Issues in Health and Health Care	3 credits
NUR	302	Pharmacology	3 credits
NUR	311	Reproductive & Sexual Health Nursing	2 credits
NUR	312	Reproductive & Sexual Health Nursing Lab	2 credits
NUR	315	Child Health Nursing	2 credits
NUR	316	Child Health Nursing Lab	2 credits
NUR	320	Introduction to Adult Health Nursing	2 credits
NUR	321	Introduction to Adult Health Nursing Lab	2 credits
NUR	324	Older Adult Health Nursing	2 credits
NUR	325	Older Adult Health Nursing Lab	2 credits
NUR	330	Mental Health Nursing	2 credits
NUR	331	Mental Health Nursing Lab	2 credits
NUR	340	Adult Health Nursing in the Community	2 credits
NUR	341	Community Nursing Lab	2 credits
NUR	356	Concepts in Community Health	3 credits
NUR	401	Health-Related Research	3 credits
NUR	402	Adult Health Nursing	2 credits
NUR	403	Adult Health Nursing Lab	2 credits
NUR	470	Professional Issues	2 credits
NUR	480	Concentrated Clinical Practicum	2 credits
			44 credits

Course sequencing: During the first semester junior year, students take NUR 320/321, NUR 324/325 and NUR 302. Second semester junior year, students will take either NUR 311/312 and NUR 315/316 or NUR 330/331 and NUR 340/341. The alternate option will be taken the first semester of senior year. NUR 301, Sociocultural Issues in Health and Health Care, must be taken during the junior year. NUR 356, Concepts in Community Health,



must be taken concurrently with, or previous to, NUR 341, Adult Health Nursing in the Community Lab.

### *Retention/Progression Policies*

The following are exceptions or additions to University progression policies.

Students in the nursing programs must maintain class standing according to hours accomplished, with a grade point average as follows:

<i>Credit Hours</i>	<i>For Good Standing</i>	<i>For Probationary Standing</i>
46-120	2.25	2.0
31-45	2.25	1.8
0-30	1.8	1.6

Standards apply to both part-time and full-time students. Probation lasts for a period of one semester. These standards allow the beginning or non-traditional student to adjust to school and studies. By maintaining a 2.25 GPA or above during the upper-division years, the student maintains a standard appropriate to professional practice.

The faculty of the School of Nursing reserves the privilege of accepting and retaining only those student who, in the judgment of the faculty, satisfy the requirements of scholarship and health necessary for nursing. A student who admits to or is found guilty of a violation of academic integrity (see USM Student Academic Integrity Policy) or the American Nurses' Association guidelines for ethical practice (see School of Nursing Student Handbook) is subject to suspension or dismissal from the University. The Maine State Board of Nursing may refuse to grant a license on the basis of violation of academic or professional integrity or on the basis of criminal history record information relating to convictions denominated in Title 5, Chapter 341, Subsection 5301 of the Maine Revised Statutes Annotated.

Nursing lecture and clinical courses must be taken concurrently the first time a student is enrolled in each course.

A grade of D or F in a nursing lecture or clinical course will stop progression within the School of Nursing until corrected. Only the course in which the D or F is received needs to be repeated. The student must achieve a grade of C- or better in the course which is repeated before entering the next nursing lecture or clinical course. A course may be repeated only once. To allow progression, the Admissions and Advancement Committee may make an exception to this policy as it pertains to a nursing lecture course, after consulting with the course instructor, student's advisor, clinical instructor (from the concurrent clinical course), and the student. A request for consideration of exception must be initiated by the student.

A student who receives an F grade in a course with a NUR designation, who is able to maintain a grade point average of 2.25, will be allowed to repeat the course one time when it is offered again. The course must be passed with a grade of C- or above. A student who is unable to maintain a grade point average of 2.25, but whose average remains above 2.00, is on probation within the School of Nursing. Such a student may take support courses until his or her grade point average has been restored to the level of 2.25 or above, at which point progress in nursing lecture and clinical courses may resume. A student who receives a D or F grade in courses with a NUR designation and who is unable to maintain a grade point average of 2.00 will not be allowed to maintain matriculation in the School of Nursing and will either be dismissed, required to change majors, or suspended from the University according to its policies.

The academic record of a student who receives multiple grades of D or F in the same semester in prerequisite, nursing, and/or support courses, or who receives a D or F in one of the above listed courses when repeating the course due to an unsatisfactory grade, or an F in a nursing clinical course will be reviewed by the committee for academic advancement. A student may not repeat more than two prerequisite, nursing, or support courses without an academic review by and permission from the Admissions and Advancement Committee. Matters of personal concern to the student will be considered. The committee will recommend to the dean a decision regarding progression or dismissal.

### *Incomplete Grades*

A temporary grade may be assigned by a faculty member when a student, because of extraordinary circumstances, has failed to complete course requirements in a nursing course. Incomplete grades in upper division nursing courses must be completed with a letter grade of C- or better before progressing to the next course.

### *Graduation Requirements*

To be eligible for graduation with a bachelor of science degree with a major in nursing, the student must have successfully completed all requirements, and a minimum of 122-126 credit hours with a grade point average of at least 2.25.

### *N Studies Option*

Recognizing the need and desirability for registered nurses to attain baccalaureate and master's degrees within the state, the SON faculty has designed two options for RNs—the first leading to a bachelor of science degree, and the second (described in USM's Graduate Catalog) leading to a master's degree. Realizing that RNs returning to school face many complexities, every effort is made to remain attentive and flexible in adjusting the plan of study and accommodating individual needs. Advice with prerequisites, course planning, and course sequencing for RNs may be obtained by contacting Brenda Webster at 780-4802.

All RNs must fulfill the University's 30 credit residency requirement.

The SON recognizes a maximum of 30 nursing credits (RN credit options) transferred from an associate degree (ADN) program, accredited by the National League for Nursing (NLN) at the time the degree was awarded, as basic nursing credits required in the baccalaureate program. These credits are applied toward fulfillment of the baccalaureate requirements for RN students who have successfully completed NUR 304, RN Transition. Nursing credits earned in the ADN program beyond the basic 30 credits above may be used as elective credit.

RNs graduating from a diploma program or an associate degree program school not accredited by the NLN at the time their degree was awarded may elect to sit for an examination or to prepare a portfolio documenting their learning. Portfolio evaluation is obtained through the Office of Prior Learning Assessment.

The following courses must be completed prior to entry into the upper division nursing courses or are available for credit by examination.

English Composition	**Anatomy and Physiology I & II
General Psychology	Growth and Development
General Sociology	Pathophysiology
	Microbiology

\*\*Anatomy and physiology requirement is waived with the successful completion (grade of 70) of pathophysiology.

The following courses must be completed prior to entry into the upper division nursing courses.

Chemistry for the Health Professions†  
Statistics (prerequisite to research)  
Philosophy

†Chemistry requirement is waived with the successful completion—grade of 70—of pathophysiology

University requirements in the humanities, fine arts, and Core curriculum may be taken any time prior to graduation.

Upper division nursing courses for RNs include:

	Credits	Prerequisites
Sociocultural Issues in Health and Health Care	3	
RN Transition	5	
*Total Health Assessment	4	
RN Credit Options	30	
Health Related Research	3	Statistics
Concepts in Community Health	3	

RN Lab	4	RN Transition, Total Health Assessment, and RN Credit Options
Professional Issues	2	RN Transition

\*Available for credit by examination

### *Admission Requirements for the RN to BS Option*

The RN applicant must (a) meet the general admission requirements of the University and (b) provide evidence (photocopy) of current licensure as a registered nurse in Maine. All policies applicable to students in the baccalaureate program (refer to Retention/Progression Policies) also apply to students in the RN to BS option program.

### *Option for Non-nurses with Degrees in Other Fields (second degree option)*

Recognizing the increasing interest in nursing by individuals with baccalaureate degrees in other fields, SON faculty members have designed an accelerated option leading to a master's degree (MS) in nursing. Details regarding this option are found in USM's Graduate Catalog.

The programs of the School of Nursing are subject to change at any time without notice in advance.

### *Minor in Health Studies*

The School of Nursing minor in health studies is designed to meet a growing interest in preventive health measures and self-care. Health studies offers courses in two areas of concentration: health promotion and health/fitness. The minimum number of credits required for the minor: 18.

Students seeking to minor in health studies/health promotion concentration must:

1. Complete NUR 280 Holistic Health I, and NUR 281 Holistic Health II.
2. Complete 12 credits from the following:
  - A. REC 216
  - B. REC 219
  - C. REC 226 or 3 one credit activities courses (RHF 101, RHF 102, RHF 103, RHF 104, RHF 105, RHF 106, RHF 107, RHF 108, RHF 111)
  - D. REC 285
  - E. NFS 252
  - F. NUR 599

Students seeking to minor in the health studies/health fitness concentration must:

1. Complete REC 219. Lifetime Physical Fitness & Wellness, REC 280 Physiology of Exercise, and REC 281 Kinesiology.
2. Complete 9 credits from the following:
  - A. NUR 280
  - B. NFS 252
  - C. REC 216
  - D. REC 395
  - E. Three credits from the following activity courses: RHF 101, RHF 103, RHF 104, RHF 107, RHF 109, RHF 111

Health studies courses are open to students enrolled in the health studies minor and to those who simply wish to enroll in courses to satisfy personal needs or interests. Students may transfer in 6 credits toward completion of the minor.

### **NFS 252 Human Nutrition**

This course examines the basic concepts of human nutrition and their application to the needs of human beings throughout the life cycle. Discussion of factors affecting food practices and attitudes is included. Prerequisites: Anatomy and Physiology; Organic Chemistry or Biochemistry. For challenge information of NFS 252, contact the School of Nursing. Cr 3.

### **NUR 200 Introduction to Professional Nursing**

This course introduces the student to historical and contemporary perspectives regarding the nature and scope of professional nursing. It explores the relationship between professional nursing and the broad base of theoretical and empirical knowledge derived from the behavioral and physical sciences and the humanities. It examines the role of the nurse as communicator and caregiver with a diverse, multi-cultural population in a variety of settings. Open to any sophomore standing University student. Cr 2.

### **NUR 209 Health Assessment**

This course provides the student with knowledge and skills necessary to conduct an in-depth holistic health assessment of well individuals of all ages. Emphasis is placed on data collection through development of communication, interviewing, history-taking, physical examination skills, and data synthesis with formulation of nursing diagnoses. Prerequisites: Anatomy and Physiology, NUR 200, Nutrition. Cr 2.

### **NUR 210 Health Assessment Practicum**

This course provides opportunities for students to apply knowledge and skills necessary to conduct total health assessment of clients of all ages. (Concurrent with Health Assessment) Cr 2.

### **NUR 212 Fundamentals of Nursing**

This course introduces the student to concepts and skills basic to the art and science of nursing. Cr 1.

### **NUR 213 Fundamentals of Nursing Practicum**

Foundational nursing skills/actions used in most practice settings are presented. Cr 2.

### **NUR 299 Transition to Professional Nursing: Role Development and Skill Acquisition**

This introductory accelerated course for students in the M.S. 2nd Degree Option Program surveys historical and contemporary perspectives on the nature and scope of nursing. It builds on the student's broad base of knowledge and experience as it examines the philosophical and research basis of nursing practice. Skills essential to nursing practice are explored

from both a theoretical and practical approach. Cr 3.

### **NUR 301 Sociocultural Issues in Health and Health Care**

This course explores professional nursing's role in mediating client health care needs and societal values. Students examine the influence of gender, sexuality, ethnicity, culture, spirituality, and lifestyle on the client's definition of optimal health and the attainment of health care. The nursing roles of advocate and communicator are emphasized. Cr 3.

### **NUR 302 Pharmacology**

Basic concepts in pharmacology including major drug categories, drug interactions, the use of the nursing process in the therapeutic administration of drugs, legal implications, and the physical and psychological effects of drugs on various age groups will be emphasized. Prerequisites: Human Anatomy and Physiology. Junior standing students in nursing accepted. Permission of instructor for non-nursing majors. Cr 3.

### **NUR 304 RN Transition**

This course introduces the RN student to the nature and scope of professional nursing. The student studies the theories and concepts that form a basis for professional nursing practice with individuals and families. Nursing process is utilized to define the needs for health promotion, restoration, and maintenance for clients at various developmental levels in a variety of settings and in a culturally diverse society. The study of nursing history and the development of nursing theory is initiated. Students use research to examine the role of the professional nurse and to explore family theory, crisis theory, and teaching and learning theory. Legal and ethical issues related to the delivery of health care are discussed. Open to RN students only. Prerequisite: RN license. Cr 5.

### **NUR 311 Reproductive and Sexual Health Nursing**

Emphasizing the health care needs of the reproductive family, this course examines issues of reproductive health from adolescence through older adulthood. Content stresses the nursing roles of teacher, communicator, and caregiver related to client needs with menarche, fertility, parenting, sexuality, sexual functioning, menopause, common health problems of the male and female reproductive system. Prerequisites: NUR 302; NUR 320/321; NUR 324/325. Cr 2.

### **NUR 312 Reproductive and Sexual Health Nursing Lab**

This course offers students learning experiences in providing nursing care to families during

perinatal experiences. It also offers students the opportunity to apply knowledge of client reproductive health care needs at other points in the life span. (Concurrent with NUR 311) Cr 2.

#### **NUR 314 RN Credit Options**

RNs graduating from a diploma program or an associate degree program at a school not accredited by NLN at the time their degree was awarded may elect to sit for an examination or to prepare a portfolio documenting their learning. Cr maximum of 30.

#### **NUR 315 Child Health Nursing**

This course presents theory and research findings on family-centered nursing in the health promotion and health care of children. Students study health needs and common health problems of children at different developmental stages. Nursing roles and strategies consider personal, family, environmental, and societal influences on child health. Prerequisites: NUR 302; NUR 320/321; NUR 324/325. Cr 2.

#### **NUR 316 Child Health Nursing Lab**

This course offers students learning experiences in providing health care to children. In community and/or acute care settings students practice family-centered nursing care with children at different stages and with different health care needs. Recognizing the research base of nursing practice, students plan and evaluate their nursing interventions. (Concurrent with NUR 315)

Cr 2.

#### **NUR 320 Introduction to Adult Health Nursing**

Students will explore research-based therapeutic nursing interventions which support adult clients experiencing health problems. This course will enable students to develop and practice critical thinking and communication skills necessary for delivery of family-centered care in today's complex health care system. The emphasis is on major health problems in the United States. The roles of caregiver, teacher, and communicator are introduced. Cr 2.

#### **NUR 321 Introduction to Adult Health Nursing Lab**

Students will intervene therapeutically with adults experiencing health problems. Students will practice problem-solving skills and critical thinking as they perform nursing roles in acute care settings. (Concurrent with NUR 320) Cr 2.

#### **NUR 324 Older Adult Health Nursing**

This course will offer students a broad based perspective on current gerontological theories and issues related to aging in this society. The older person is viewed within a holistic realm relevant to nursing practice. Emphasis will be placed on health care needs and growth potential of aging persons. Cr 2.

#### **NUR 325 Older Adult Health Nursing Lab**

This course offers students an opportunity to focus nursing practice on the unique health problems and psychosocial issues of older adults. A variety of clinical sites may be utilized including, but not limited to, home health agencies, nursing homes, and acute care hospitals. (Concurrent with NUR 324) Cr 2.

#### **NUR 330 Mental Health Nursing**

This course introduces concepts and principles basic to mental health nursing. The focus will be on the understanding of personality development and its behavioral manifestations. Assessment of clients and intervention strategies are explored. Interdisciplinary aspects of mental health care delivery and current issues in mental health nursing will be discussed. Prerequisites: NUR 302; NUR 320/321; NUR 324/325. Cr 2.

#### **NUR 331 Mental Health Nursing Lab**

This course is designed to provide clinical experience with a mental health/psychiatric nursing focus. The emphasis is on application of concepts of mental health/psychiatric nursing. (Concurrent with Mental Health Nursing, NUR 410) Cr 2.

#### **NUR 340 Adult Health Nursing in the Community**

Students will study family-centered therapeutic nursing interventions that support adult clients in the home setting. This course will enable students to develop and practice critical thinking and communication skills necessary for delivery of family-centered care within the community. The emphasis is on chronic health problems in the United States. The roles of collaborator and advocate are introduced. Prerequisites: NUR 302; NUR 320/321; NUR 324/325. Cr 2.

#### **NUR 341 Community Nursing Lab**

This course offers students an opportunity to learn nursing therapeutics relevant to community-based care of adults and families. The course allows students to integrate concepts of community health, family-centered nursing, and adult health nursing. (Concurrent with NUR 340) Cr 2.

#### **NUR 356 Concepts in Community Health**

This course introduces public health principles basic to improving the health of populations and to the practice of community health nursing. The epidemiological process is stressed in surveying current major health issues. Emphasis is on diverse groups in the community at national, regional, and local levels. Must be taken concurrent with or previous to NUR 340/341. Cr 3.

### **NUR 395 Clinical Development**

This is a series of two-credit clinical courses in which the student develops and solidifies competencies learned in the population-based courses of the undergraduate program. The student will practice according to previously mastered level competencies in conjunction with a clinical preceptor. Cr 2.

### **NUR 401 Health-Related Research**

Introduction to health-related research with an emphasis on understanding the research process and becoming a consumer of research. Application of current research findings to nursing practice is a major component of the course. Prerequisites: Statistics; RN students; senior standing in the School of Nursing, or permission of instructor. Cr 3.

### **NUR 402 Adult Health Nursing**

Students will explore research-based therapeutic nursing interventions which support adult clients experiencing complex health problems. This course will enable students to develop and practice critical thinking and communication skills necessary for delivery of family-centered care. The emphasis is on major health problems in the United States. The nursing roles of coordinator and leader are introduced. Cr 2.

### **NUR 403 Adult Health Nursing Lab**

Students will intervene therapeutically with adults experiencing complex health problems. Students practice problem-solving skills and critical thinking as they perform nursing roles in acute care settings. (Concurrent with NUR 402) Cr 2.

### **NUR 417 RN Lab**

This course provides a community health nursing lab experience for RN students, with the option for alternative clinical experience. Cr 4.

### **NUR 420 Nursing Fundamentals Lab**

This course provides students with the supervised clinical experience required for certification as a nursing assistant (CNA). It is designed to prepare students to provide basic nursing assistance to clients under the supervision and delegation of a registered professional nurse. Cr 2.

### **NUR 470 Professional Issues**

This course explores contemporary issues in the profession of nursing and in the health care system. Using theories related to complex systems, leadership and change, students explore professional and ethical issues which affect the delivery of health care. Cr 2.

### **NUR 480 Concentrated Clinical Practicum**

This culminating intensive clinical experience is designed to promote the role transition from student to graduate nurse. The focus is on the development of the leadership and management skills utilized in the care of clients. During this final clinical experience the student, assigned to work with a nurse clinician, will emphasize the integration of the multiple roles of nursing in the delivery of nursing therapeutics. Cr 2.

### *Required Core Courses for Health Studies Minor*

#### **NUR 280 Holistic Health I**

This beginning-level course explores the many facets of holistic health. Emphasizing the integration of body, mind, and spirit, specific techniques and therapies will be introduced including, but not limited to, nutrition, stress management, exercise, therapeutic massage, counseling, and others. The primary goal is to bring greater self-confidence, increased knowledge, and self-responsibility about health into each student's life. Cr 3.

#### **NUR 281 Holistic Health II**

This advanced course explores the realm of holistic health in greater depth. A strong component will focus on approaches to healing, including such topics as nutrition, meditation, creative imagery, crystals, and herbal remedies. Spiritual and metaphysical dimensions will be integrated as they relate to the total well-being of the individual. Prerequisite: Holistic Health I or permission of instructor. Cr 3.

## **Department of Recreation and Leisure Studies**

The Department of Recreation and Leisure Studies in the School of Nursing offers two degree programs for students interested in pursuing careers in therapeutic recreation. The associate degree program in therapeutic recreation consists of 60 credit hours. Upon completion of the degree requirements, the student may seek employment as a therapeutic recreation assistant or recreation generalist in a variety of settings.

The baccalaureate degree program in therapeutic recreation consists of 120 credit hours. Upon completion of the degree requirements, the student may seek employment as an activity coordinator, therapeutic recreation specialist,

or recreation generalist. Students who complete Internships under the supervision of a Certified Therapeutic Recreation Specialist will be eligible to sit for the National Council for Therapeutic Recreation certification examination.

In addition to the two degree programs, a wide variety of professional recreation and leisure courses, as well as fitness activity courses, is available. Students are encouraged to pursue recreation, leisure, and fitness course offerings as appropriate to their academic program.

The School of Nursing also offers a minor in health studies for students not majoring in nursing. See description in School of Nursing section of catalog.

### *Retention/Progression Policies*

The Department of Recreation and Leisure Studies adheres to the minimum grade and academic suspension standards described in the Academic Policies section of this catalog. In addition the faculty reserves the privilege of retaining only those students who, in the judgment of the faculty, satisfy the requirements of scholarship, skill, and health necessary for practice as therapeutic recreation specialists or therapeutic recreation assistants. A student who admits to or is found guilty of a violation of academic integrity (see USM Student Academic Integrity Policy) or the National Therapeutic Recreation Society's Code of Ethics is subject to suspension or dismissal from the University. (The ethics statement is posted in the Department's reception area, is discussed in REC 294 and REC 494, and is available in the Department chairperson's office.)

A grade of D or F in a Department theory or clinical course will stop progression within the respective degree course sequence. A student who receives a grade of D or F in an Internship course, REC 295 or REC 495, will be allowed to repeat the course once, providing that the student is able to secure an internship placement and the faculty agrees that the student possesses the knowledge, skills, and health necessary to work with clients in an internship setting. Students who repeat Internship must enroll in the appropriate pre-internship course the semester immediately preceding Internship. Students who receive a D or F in a Department theory or clinical course must obtain a grade of C- or better when the course is repeated.

### *Internship Policies*

Policies regarding internship are specified in the Department's *Student Internship Manual*. Internship eligibility requirements are as follows:

**B.S. Degree** In order to be eligible for the REC 495 Internship placement, baccalaureate degree students must be therapeutic recreation majors, have completed at least 24 credits from the Core curriculum, plus all of the program's required foundation courses. Students must also possess current Red Cross Emergency Response and CPR certifications, have a grade point average of at least 2.0 and have completed the following major courses: REC 110, REC 121, REC 125, REC 232, REC 241, REC 382, REC 494, a health/fitness elective; a recreation leadership elective, and a leisure studies elective. Students wishing to complete an internship outside of the faculty's direct supervision area (approximately a 120-mile radius from USM) must have a GPA of at least 2.6. Internship opportunities extend throughout New England. The Department cannot guarantee that students will be able to obtain internships in the southern Maine area.

**A.S. Degree** In order to be eligible for the REC 295 Internship placement, associate degree students must be therapeutic recreation majors and have completed at least 36 credit hours of coursework including REC 110, REC 121, REC 232, REC 241, REC 294, and one recreation leadership elective. Students must also possess current Red Cross Emergency Response and CPR certifications and have a grade point average of 2.0. A grade point average of 2.6 will be required in order to complete an internship outside of the faculty's direct supervision area. Internship opportunities extend throughout New England. The Department cannot guarantee that students will be able to obtain internships in the southern Maine area.

## Course Fees

A course fee is assessed in Karate (RHF 102) and Advanced First Aid and Emergency Care (REC 216), and Arts and Crafts Programming and Leadership (REC 231).

## Programs and Requirements

### Associate Degree in Therapeutic Recreation

The two-year program in therapeutic recreation consists of the following courses leading to the associate of science degree. The curriculum is subject to change as a result of faculty evaluation.

#### General Foundation Courses

Required: (16 cr)			Credits
ENG	100C	College Writing	3
BIO	100K	Biological Basis of Human Activity	3
BIO	102K	Biological Experiences	1
PSY	101J	General Psychology I	3
SWO	266	Concept of Self and the Handicapped Person	3
THE	170F	Public Speaking	3
Electives: (9 cr)			
Humanities			3
General (two courses)			6
Major Courses			
Required: (23 cr)			
REC	110	Introduction to Recreation & Leisure	3
REC	121	Introduction to Therapeutic Recreation Services	3
REC	125	Recreation Analysis & Adaptation	3
REC	232	Methods in Therapeutic Recreation Program Design	3
REC	241	Leadership and Supervision in Leisure Services	3
REC	294	Therapeutic Recreation Practice/Pre-Internship	2
REC	295	Internship	6

*Note:* Students must obtain Red Cross CPR and Emergency Response certificates before taking Internship. This can be done by taking REC 216 or by taking courses offered by the Red Cross.

#### Recreation Leadership Electives: (6 cr) Choose two:

REC	219	Lifetime Physical Fitness & Wellness	3
REC	226	Lifetime Leisure Activities	3
REC	231	Arts and Crafts Programming and Leadership	3
REC	250	Adapted Aquatics	3

#### Three 1 credit Recreation & Leisure Activity courses

#### Leisure Studies/Therapeutic Recreation Electives: (3 cr)

REC	233	Environmental Recreation	3
REC	300	Leisure and Older Adults	3
REC	285	Perspectives on Animal Assisted Therapy	3

#### General Recreation Electives: (3 cr)

Any recreation elective including courses listed in the Recreation Leadership & Leisure Studies elective categories that have not already been taken. No more than three 1 credit activity courses can be accepted for graduation credit.

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Total credits 60

### Transfer into the B.S. Degree Program in Therapeutic Recreation from other USM Academic Programs

Students enrolled in the Department's A.S. degree program may transfer into the B.S. degree program provided space is available and they have completed REC 110 and REC 121 with grades of at least "B" and ENG 100C, PSY 101J, and a human biology course with grades of "C" or better. Students must meet with the Department chairperson to discuss transfer requirements and procedures.

Students enrolled in other USM programs of study must meet with the Department chairperson to discuss transfer requirements and their reasons for transfer. Such students should have completed REC 110 and REC 121 with grades of at least "B" and ENG 100C, PSY 101J, and BIO 121 or equivalent with grades of "C" or better. Acceptance into the program is also dependent on reasons for transfer and space availability.



### Baccalaureate Degree Program in Therapeutic Recreation

In satisfying Core curriculum requirements, students are urged to take PSY 101J and HRD 333J to fulfill their social sciences requirement. BIO 111/106K are recommended for the natural sciences requirement.

The four-year program in therapeutic recreation consists of, in addition to the Core curriculum requirements, the following courses leading to the bachelor of science degree. The curriculum is subject to change as a result of faculty evaluation.

Required recreation courses (35 cr)			Credits
REC	110	Introduction to Recreation & Leisure Services	3
REC	121	Introduction to Therapeutic Recreation Services	3
REC	125	Recreation Analysis and Adaptation	3
REC	232	Methods in Therapeutic Recreation Program Design	3
REC	241	Leadership and Supervision in Leisure Services	3
REC	382	Therapeutic Recreation Interventions & Protocols	3
REC	494	Therapeutic Recreation Practice/Pre-Internship	2
REC	495	Internship	12
<i>Note:</i> Students must obtain Red Cross CPR and Emergency Response certificates before taking Internship. This can be done by taking REC 216 or by taking courses offered by the Red Cross.			
REC	498	Management & Supervision in Therapeutic Recreation	3
Leisure studies electives (3 cr)			
REC	300	Leisure and Older Adults	3
REC	314	Leisure Education and Counseling	3
REC	372	Issues in Recreation and Leisure	3
Health/fitness electives (3 cr)			
REC	219	Lifetime Physical Fitness and Wellness	3
REC	280	Exercise Physiology	3
Recreation leadership/therapeutic recreation electives (6 cr)			
REC	226	Lifetime Leisure Activities	3
REC	231	Arts and Crafts Programming and Leadership	3
REC	233	Environmental Recreation	3
REC	250	Adapted Aquatics	3
REC	285	Perspectives on Animal Assisted Therapy	3
General recreation electives (7 cr)			
Any recreation electives including courses listed in the leisure studies, health/fitness and recreation leadership elective categories that have not already been taken. No more than four 1 credit recreation activity courses can be accepted for graduation credit.			
Required foundation courses (25.5 cr)			
THE	170F	Public Speaking	3
BIO	111	Human Anatomy and Physiology I	3
BIO	211	Human Anatomy and Physiology II	3
BIO	212	Practical Human Anatomy & Physiology	1.5
SWO	266	Concept of Self and the Handicapped Person	3
NUR	280	Holistic Health I	3
SWO	288	Substance Use and Abuse: Alcohol & Other Drugs	3
HRD	333J	Human Growth and Development	3
PSY	333	Psychopathology	3
General (non-major) electives (15 cr)			15
			Total credits (with Core) 120

### **RHF 100 Level Recreation/Fitness Courses**

Each 100-level course provides instruction in one of the following areas: RHF 101 Tennis; RHF 102 Karate; RHF 103 Wallyball; RHF 104 Racquetball; RHF 105 Golf; RHF 106 Ballroom Dance; RHF 107 Aerobics; RHF 108 Step Aerobics; RHF 109 Beginning Weight Training; RHF 111 Intermediate Weight Training (Prerequisite: RHF 109) RHF 112 Pickleball; RHF 113 Challenge Games. *Note:* The RLS Department reserves the right to request written medical clearance for participation in courses which require high intensity exercise. Cr 1 each.

### **REC 110 Introduction to Recreation and Leisure**

This course addresses the concepts of leisure, play, and recreation, emphasizing the role leisure should play in modern society. Lectures and discussions on societal attitudes toward work and leisure stresses the need to keep these in proper perspective. Students will concentrate on the psychological aspects of optimal experience and quality of life. Community leisure services will be addressed. Assignments will encourage students to explore leisure lifestyle attitudes. Cr 3.

### **REC 121 Introduction to Therapeutic Recreation Services**

An overview of therapeutic recreation including historical and philosophical foundations, service models, professional functions and service settings. A survey of diseases and disabilities with implications for service delivery will also be included. Prerequisite: therapeutic recreation major or instructor permission. Cr 3.

### **REC 125 Recreation Analysis and Adaptation**

This course will examine the physical, emotional, cognitive and social domains that underlie human activity as well as methods that can be used to analyze the therapeutic potential of recreational activities. The role of leisure-oriented assistive technology will be discussed and a variety of activity and equipment adaptations will be examined. Prerequisite: REC 110 or instructor permission. Cr 3.

### **REC 215 Travel Concepts for Life & Leisure**

This course will address many issues associated with travel in today's society. Planning a trip, seeking advice, obtaining reservations, securing required documents, investigating costs, evaluating vacation packages, and discovering the various types of travel opportunities throughout the world. This course will guide you through the travel experience from the initial inquiry to the time you arrive back home. Cr 3.

### **REC 216 Emergency Response**

This course will cover the topics prescribed by the American Red Cross in their emergency response course, including respiratory and cardiac emergencies, wounds, poisoning, sudden illness, burns and other topics. Successful completion of the course requirements will lead to Emergency Response certification, including adult, child, and infant CPR, from the American Red Cross. Cr 3.

### **REC 217 Basic Sailing & Seamanship**

An intensive study of the theoretical and practical elements involved in coastal sailing. Emphasis is on USCG safety regulations, seamanship, navigation, and sail handling. Cr 3.

### **REC 219 Lifetime Physical Fitness and Wellness**

The primary emphasis of this course is to teach students how to take control of their personal health and lifestyle habits. Major areas will include nutrition/weight management, fitness training techniques, flexibility, coronary risk factor management, muscular strength/endurance, stress management and other wellness-related topics. Class content will include lecture/discussion and in-class laboratory evaluations. Cr 3.

### **REC 226 Lifetime Leisure Activities**

Students will learn a variety of recreation activities through participation. Classroom sessions cover the rules and techniques of the sports as well as efficiency of movement. Cr 3.

### **REC 231 Arts and Crafts Programming and Leadership**

Students will learn about the therapeutic benefits of art and craft activities and how to plan, adapt, organize, and lead programs and activities. The course will require students to participate in a variety of craft activities including leatherwork, weaving, macramé, sand painting, and other appropriate projects. Prerequisite: REC 125 or instructor permission. Cr 3.

### **REC 232 Methods in Therapeutic Recreation Program Design**

Using a systems approach to therapeutic recreation program development, students will learn how to develop group-oriented treatment programs and special events. Leisure assessment, documentation, and individualized treatment plan development will be introduced. Students will be required to meet together outside of class to work on group projects. Prerequisites: REC 121 and REC 125. Cr 3.

### **REC 233 Environmental Recreation**

The roles of outdoor recreation activities, park systems and wilderness environments in modern society will be examined. Outdoor and

environmental ethics as well as educational strategies will be studied and a variety of outdoor activities will be presented. Cr 3.

#### **REC 241 Recreation Leadership**

This course will provide students with the basic knowledge and methods necessary for effective leadership in recreation settings. Students will be required to participate in projects, presentations, and discussions which are aimed at helping them develop and analyze leadership skills in a variety of recreation program areas such as special events, expressive arts, passive recreation, outdoor recreation, and sports. Prerequisites: therapeutic recreation major and REC 110 or instructor permission. Cr 3.

#### **REC 250 Adapted Aquatics**

This course is designed for therapeutic recreation majors who are interested in organizing swimming programs for the handicapped and for experienced swimming instructors desiring to update their background in this field. It will offer all the necessary skills and techniques for teaching handicapped people how to swim and discover the joys of participating in water activities. Cr 3.

#### **REC 279 Health and Fitness for Older Adults**

Emphasis throughout this course is on the positive values and benefits of better health and fitness in the development of a high quality lifestyle for older persons. Class sessions are organized so that students not only gain theoretical knowledge but also valuable laboratory experiences by working directly with older persons. Cr 3.

#### **REC 280 Physiology of Exercise**

Students will gain an understanding of acute and chronic effects of exercise. Muscle physiology, respiration, cardiac function, circulation, energy metabolism, and application to training. Prerequisite: A course in human biology or human anatomy and physiology or instructor permission. Cr 3.

#### **REC 281 Kinesiology**

This course provides students with the knowledge needed to analyze human motion. The primary focus of the course is on applied anatomy with basic neuromuscular and biomechanical principles also addressed. Prerequisite: a course in human biology or human anatomy and physiology or instructor permission. Cr 3.

#### **REC 285 Perspectives on Animal Assisted Therapy**

This course explores the role of pets and other animals in contemporary society with a special emphasis on understanding the role animals may play in the treatment/rehabilitation of per-

sons with a variety of physical and psychological disabilities. Lectures, discussions, guest speakers, and a variety of A/V materials will be utilized to meet course objectives. Cr 3.

#### **REC 294 Therapeutic Recreation Practice/Pre-Internship**

This course will prepare students for an extended internship experience. Students will complete all of the tasks necessary to apply for an internship placement. Serious study and discussion of topics such as professional conduct, ethics, safety, and risk management will be required. This course must be taken immediately prior to Internship. Prerequisites: Recreation core courses and instructor's permission. Cr 2.

#### **REC 295 Internship**

Students work as therapeutic recreation assistants under the supervision of an appropriately certified therapeutic recreation leader in a university approved agency which provides therapeutic recreation services. A faculty member will work with the agency supervisor to coordinate the student's educational experiences. Students will be required to participate in some on campus classroom sessions to process their internship experiences. Prerequisite: REC 294 taken immediately prior to Internship. Cr 6.

#### **REC 300 Leisure and Older Adults**

This course provides an overview of the aging process with an emphasis on understanding the role of leisure in elderhood. Topics of study will include activity patterns and constraints, pre-retirement planning and the relationship of leisure to adjustment in retirement. The course will examine recreation programs in community and institutional settings. Students will be expected to complete a series of on-site practical experiences. Prerequisite: REC 110 or instructor permission. Cr 3.

#### **REC 314 Leisure Education and Counseling**

The intent of this course is for students to learn how to help people plan for and find enjoyment in leisure. Theories and techniques of counseling will be included. Students will learn how to help clients identify barriers and to assess their values, attitudes, and interests as they relate to their leisure behavior. Students will be expected to work on projects in small groups. Prerequisite: REC 232 or permission of the instructor. Cr 3.

#### **REC 343 Perceptual-Motor Learning**

An introduction to motor development and motor learning including psychological theories and implications for skill instruction and research. Cr 3.

#### **REC 372 Issues in Recreation and Leisure**

The focus of this course is on the research and

discussion of contemporary issues in recreation and leisure studies. Topics such as professionalism, legal issues, economic issues, service delivery, research trends, and resource availability will be covered. Prerequisite: REC 110 or instructor permission. Cr 3.

### **REC 382 Therapeutic Recreation Interventions and Protocols**

This course examines therapeutic recreation services in a variety of habilitation and rehabilitation settings. Emphasis will be on individual treatment plan development, intervention strategies, and protocols used by therapeutic recreation specialists in a variety of treatment settings such as physical rehabilitation centers, nursing care facilities, group homes, and mental health hospitals. Students will be required to participate in a practicum experience at a treatment facility for a minimum of two hours per week. Students will be required to participate two hours per week in a "leisure buddy project" as part of the course requirements. Prerequisites: REC 232, PSY 333, HRD 333J and SWO 388. Cr 3.

### **REC 395 Practical Experience in Health/Fitness**

This course is designed for students who are pursuing the minor in health studies with a concentration in health/fitness. Students will be exposed to various health/fitness related responsibilities including fitness testing, personal training, corporate fitness programming, and cardiac rehabilitation. Students will also gain leadership skills by giving presentations on selected topics in the health/fitness field. Prerequisite: REC 219 or REC 280 or instructor permission. Cr 3.

### **REC 398 Independent Study**

This course is intended to provide therapeutic recreation majors with an opportunity to pursue

a project independently. Students should select a faculty advisor and develop a course proposal with this person. A final written paper is required. Prerequisite: junior or senior standing. Cr 3.

### **REC 494 Therapeutic Recreation Practice/Pre-Internship**

This course will prepare students for an extended internship experience. Students will complete all of the tasks necessary to secure an internship placement. Serious study and discussion of topics such as professional conduct, ethics, safety, and risk management will be required. This course must be taken immediately prior to Internship. Prerequisites: Recreation core courses and instructor's permission. Cr 2.

### **REC 495 Internship**

Students are required to work a minimum of 490 hours in an agency that provides recreation or therapeutic recreation services. During this period the students will apply the knowledge, methods, and leadership techniques which have been learned in academic courses. Students will be directly supervised by qualified agency personnel and indirectly supervised by faculty. This course is to be taken the senior year. Prerequisites: REC 494 and instructor's permission. Cr 12.

### **REC 498 Management and Supervision in Therapeutic Recreation**

An overview of management roles in therapeutic recreation settings with major focuses on comprehensive program development, supervision of professional and volunteer personnel, policy and strategy development and quality assurance. Each student is required to develop a comprehensive program and policy manual. Students will apply the information learned during internships to course assignments and discussions. Prerequisite: REC 495. Cr 3.

# Lewiston-Auburn College

*Dean:* Helen Greenwood, 51 Westminster Street, Lewiston, ME 04240  
*Chair:* Druker; *Associate Professors:* Druker, Greenwood, Hachtel, Johansen, Robinson, Schaible; *Assistant Professors:* Gitlow, Harris, Hitchcock, Nealand, Oran, Raimon; *Instructor:* Mueller-Shore; *Adjunct Faculty:* Levine, Makas, Minkoff

The Lewiston-Auburn College of the University of Southern Maine is designed to serve as a resource to its community and to its region. The curriculum is marked by integration not only among the various disciplines within the liberal arts, but also between the liberal arts and the professional concentrations, between professional concentrations and the workplace, and between the college and the community. Just as the curriculum is designed to provide for each student the ability to change and grow as new opportunities present themselves, the College itself is designed so that it, too, can grow. The faculty at Lewiston-Auburn College believe that learning is a shared experience between students and faculty. The College offers interdisciplinary learning focusing on communication, teamwork, and student participation and leadership. Opportunities are available for internships, independent studies, and credit for prior learning.

## *Transfer Policies*

Lewiston-Auburn College works very closely with the University of Maine at Augusta (UMA), Central Maine Technical College (CMTC), and Central Maine Medical Center (CMMC) to enable students who have received associate degrees from these institutions to continue their education toward a baccalaureate degree from the University of Southern Maine. In most cases credits and often grades transfer directly into the baccalaureate programs. It is important for students to be aware of the transfer policy which applies to their particular situation.

1. *Students Matriculated (accepted) into USM's baccalaureate programs.* Students matriculated into Management and Organizational Studies (MOS), Arts and Humanities (HUM), Natural and Applied Science (SCI), and Social and Behavioral Sciences (SBS) will receive full credit, grades, and quality points from UMA courses or from courses of any campus in the University of Maine System.
2. *RN Studies Program.* Grades, credits, and quality points of all USM courses will automatically be recorded on a USM transcript. Credits (not grades or quality points) will be transferred from UMA courses onto USM transcripts.
3. *Special Students (not Matriculated).* Students may register for any course provided they meet prerequisites. USM courses, grades, and quality points will be recorded on a USM transcript and UMA courses, grades, and quality points will be recorded on UMA transcripts. When a student applies for admission to either campus, it is the student's responsibility to assure that the appropriate transcript(s) accompanies the application.
4. *Industrial Technology.* Grades, credits, and quality points of all USM courses will automatically be recorded on a USM transcript. Credits (not grades or quality points) will be transferred from UMA and CMTC courses onto USM transcripts.

The Lewiston-Auburn College offers: B.A. degree in arts and humanities; B.A. degree in natural and applied science; B.A. degree in social and behavioral sciences; B.S. degree in industrial technology (extended from USM's School of Applied Science); B.S. degree in management and organizational studies, a B.S. degree in nursing for students holding an R.N. (extended from USM's School of Nursing); and an MOT degree (master's in occupational therapy).

## Graduation Requirements

To be eligible for graduation with a baccalaureate degree and major from Lewiston-Auburn College, students must have successfully completed all Core and major requirements, at least 30 credit hours in 300- to 400-level USM courses offered by Lewiston-Auburn College, and have obtained a minimum grade point average of 2.0 in the major.

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### LAC 100 Introduction to Collegiate Studies

An introduction to college with special emphasis on the purposes of college, an introduction to study skills and time management, career and academic planning, and library utilization. The course will be thematic in nature, depending upon the particular expertise of the instructor.

Cr 3.

### LAC 101E Critical Thinking

This course aims to teach students how to think critically in order to improve their skills in writing, reading, listening, and making decisions. Students are taught the elements and standards of critical thinking and asked to apply them to a wide variety of oral and written material. Cr 3.

### LAC 102 Introduction to Computer Information Systems

An introduction to computer information systems and their applications. This survey course will cover both the hardware and the software utilized in computer information systems. The fundamentals of computer problem solving and programming in the language BASIC are discussed and applied. The course will cover the use of a word processor and spreadsheet on microcomputers. Prerequisite: MAT 010 or successful placement testing. Cr 3.

### LAC 105 Word Processing: Wordperfect

This seven-week lecture and laboratory course in word processing covers beginning and intermediate levels of Wordperfect including composition, formatting, tables, type, and printing. Typing experience is beneficial, but not required.

Cr 1.

### LAC 120 Survey of Occupational Therapy

This one-credit course, although not required, is intended to provide an overview of occupational therapy for people considering application to the post-baccalaureate entry-level master's program in occupational therapy. Occupational therapists and occupational therapy assistants will guest lecture to discuss their roles, the settings in which they work, and the opportunities available in the field. Cr 1.

### LAC 150 Microcomputers and Applications

An introductory lecture and laboratory course designed to introduce students to basic microcomputer concepts and their application to education, business, and home management. Basic computer operation, operating systems, formatting, language, architecture, consulting, and communications will be covered. Cr 3.

## B.A. Degree in Arts and Humanities

This program is for the student who enjoys the arts and humanities and appreciates their strengths for helping one to live meaningfully and successfully in the modern world. Students study the complex issues of today's world in the context of our cultural history and seek insight into who we are as a pluralistic society and how we can live equitably. This major prepares students for careers in education, journalism, and the arts, as well as for further study in graduate programs (e.g., English, history, American and New England studies) and professional schools. Coursework will explore a variety of historical and contemporary issues from perspectives that cross disciplinary and cultural boundaries. Because this degree is based on the conviction that a democratic society demands citizens capable of critical thought, articulate expression, and cooperative endeavor, all academic courses within the major strongly encourage student thought and expression in small group and class discussions and in written work. A number of courses are team-taught by faculty and appropriate instructors from the community.

Total degree credits to be earned: 120.

No more than two courses from outside the major may be used toward completion of the requirements for the major without permission of the faculty.

Students are responsible for completing USM's Core curriculum.

*Prerequisite Courses (24 credits)*

Art History and Appreciation I and II	Credits 6
Western Civilization or World History	6
Foreign Language*	6

Introduction to Literature	3
Microcomputers and Applications	3

\*A second year of a language is recommended.

*Note:* These courses may also be used to satisfy Core curriculum requirements. Satisfactory completion of a 100-level college writing course is a prerequisite to all courses in this major.

*Program Requirements (27 credits)*

General

HUM	135I/136I	American Studies I and II	6
HUM	302	Seminar: Live Performances, Exhibits and Lectures	3
HUM	308	Texts and Meanings	3
HUM	385	Internship	3

Interdisciplinary Courses

Students must select 4 interdisciplinary courses. Courses may vary from year to year, but typical offerings are listed below.

HUM	223H	Life and Literature after Darwin	
HUM	310	Franco-American Studies	
HUM	318H	Photography and Poetry: Two Ways of Speaking	
HUM	323	Life and Literature after Darwin	
HUM	330I	Labor, Literature and the Arts	
HUM	332	Religion in Culture and Politics	
HUM	342	Voices of Minorities	
HUM	355	Organizations and the Humanities	
SBS	316	Men, Women, and Work	
SBS	344	Violence, Aggression, and Peaceful Alternatives	

*Electives*

Eighteen credit hours must be satisfied by courses with prefixes of ENG, HUM, ART, MUS, PHI, HTY or by additional interdisciplinary courses. The remaining credit hours may be selected from any courses offered at Lewiston-Auburn College or from other accredited institutions. MOS 300 Managing Organizations is strongly recommended.

**HUM 100C Composition**

This course satisfies the English composition requirement of the Core curriculum. All sections use the workshop approach; students learn to read critically and use feedback to help them develop skills in organizing and expressing their ideas in clear and effective prose. The course does not satisfy the Core humanities requirement. Prerequisite: writing proficiency (ENG 005 or equivalent). Cr 3.

**HUM 105F Basic Photography**

This course is an introduction to black and white photography, designed to help students gain understanding through "hands-on" photographic work. Lectures include classroom discussions concerning the history and aesthetics of photography, and techniques include camera and lens functions, exposure methods, basic black and white film processing, printmaking, print finishing, and presentation techniques. Cr 3.

**HUM 135I American Studies I**

Drawing on political and social history and imaginative literature, this course will study the diverse peoples, events, and ideas that helped

shape and define the United States from its inception through the latter part of the nineteenth century. Cr 3.

**HUM 136I American Studies II**

This course is a continuation of HUM 135I, covering the period extending from the late nineteenth century up to modern times. Cr 3.

**HUM 205 Creative Writing: Poetry**

This course is designed to introduce students to the art and practice of writing poetry. Organized as a workshop, it features close examination of the student's own writing as well as the work of outstanding contemporary poets. Cr 3.

**HUM 206 Creative Writing: Fiction**

This course is designed to introduce students to the art and practice of writing fiction. Organized as a workshop, it features close examination of the student's own writing as well as the work of outstanding contemporary fiction writers. Cr 3.

**HUM 223H Life and Literature after Darwin**

A study of biological evolution and its reflections in literature. Readings on Darwin's theory of evolution in its original and modern forms, followed by the study of literature that depicts our attempts to understand, cope with, and transcend our biological nature. Discussions and writing assignments are aimed at helping students understand how science influences literature, and conversely, how literature translates science into human dimensions. No college biology background required. Cr 3.

**HUM 250 Song as Literature**

This course is designed to introduce students to the role of the song in our cultural heritage as a fundamental literary genre and a remarkably democratic and influential art form. The course traces the evolution of the story song from the epic ballads of Europe and North America through the development of songs for religious, political, nationalistic and purely entertainment purposes. Cr 3.

**HUM 302 Seminar: Live Performances, Exhibits**

and Lectures During the semester students will attend several live performances, exhibits, or lectures and discuss them in class. Cr 3.

**HUM 305 Creative Writing Workshop**

In this intensive weekend workshop, students discuss the work of a visiting writer and receive helpful criticism and instruction on their own efforts in poetry or short fiction. The course allows students an opportunity to improve their writing and also to become acquainted with some of our more promising writers. Cr 1.

**HUM 308 Texts and Meanings**

Using literature, art, film, and theoretical writings, this course will explore the problematic process of determining a text's meaning. Central topics include recent ways of defining a text, the relationship of reader to text, the "death" of the author, the meaning of translation, the interpretive community, historical consciousness, and the roles played by power, authority, and tradition. Cr 3.

**HUM 310 Franco-American Studies**

This course studies the history, culture, and literature of the Franco-Americans. Cr 3.

**HUM 318H Photography and Poetry: Two Ways of Speaking**

This course deals with two modes of creative expression: photography and poetry. Its purpose is to help students read intelligently and sensitively both photographs and poems and to assist them in exploring connections between the two types of expression. Cr 3.

**HUM 330I Labor, Literature, and the Arts**

This course explores the ways in which working people's lives have been depicted through fiction, poetry, visual arts, and/or music. It also examines the unique impact of labor unions, rural workers' organizations, and other labor support associations on the cultural life of North America. Cr 3.

**HUM 332 Religion in Culture and Politics**

This course will look at one or more historic or contemporary issues or events in order to explore the connection between religion and the origin, progress and outcome of each issue or event under consideration. Cr 3.

**HUM 342 Voice of Minorities**

Through a study of literature, music, art, and film produced by minorities in the United States, students will explore the problems and concerns of these minority populations as well as their contributions to our culture. Cr 3.

**HUM 344 Violence, Aggression, and Peaceful Alternatives**

This course studies violence and the possibilities of living peacefully as explored in psychological and sociological works, in fiction, drama, and poetry, and in writings on anthropology and religion. The course reviews the causes of violent and aggressive behaviors and specific approaches to the creation of a more peaceful society. Cr 3.

**HUM 385 Internship**

Cr 3.

**HUM 398 Independent Study**

Cr 3.

**HUM 400 Senior Seminar**

A variety of topics relating to the arts and humanities are discussed. Students write an academic research paper or essays. Cr 3.



## B.A. Degree in Natural and Applied Science

This program provides students with a liberal arts education emphasizing basic sciences. Students may develop a concentration focusing on the biology of human health and illness or one focusing on environmental issues. The total number of credit hours to be earned in this program is 120.

The concentration in the biology of human health and illness is designed to provide students with a sufficient understanding of human biology to enable them to pursue careers in health education, to teach life sciences, to make wise health care decisions, to better communicate with health care providers, and/or to continue their education in health-related fields.

The environmental issues concentration provides students with a sufficient understanding of environmental issues to enable them to make wise decisions concerning the use of natural resources and the preservation of natural areas and species, to communicate with regional planners, to teach life sciences, and/or to continue their education in environmentally related fields.

Students must complete USM's Core curriculum.

Before taking 300-level courses, students must have completed a 100-level college writing course with a grade of at least C.

<i>Prerequisite Courses (23 credits)</i>			<i>Credits</i>
		Chemistry	8
		General Psychology I and II	6
		Introduction to Sociology	3
		Statistics	3
		Microcomputers and Applications	3
<i>Major Requirements (14 credit hours)</i>			
SCI	170K	Introduction to Physiology	4
SCI	252	Microbiology	4
SCI	309	Human Genetics	3
SCI	400	Senior Seminar	3
<i>Biology of Illness Concentration Requirements (16 credit hours)</i>			
SCI	172	Human Anatomy and Physiology	4
SCI	380/381	Pathophysiology I and II	6
HRD	333J	Human Growth and Development	3
SBS	335	Legal Issues in Health/Human Services	3
<i>Environmental Issues Concentration Requirements (14 or 15 credit hours)</i>			
GEO		Any Geography Course	3 or 4
SCI	230	Zoology	4
SCI	260	Environmental Issues	3
SCI	402	Physiological Ecology	4
		<b>or</b>	
SCI	265	Marine Biology	

### *Electives*

Of the approximately 64-69 credit hours remaining, including the USM Core curriculum, at least 9 must be selected from the list below, with the remainder to be selected from courses listed below or offered by Lewiston-Auburn College or other accredited institutions. MOS 300 Managing Organizations and SCI 385 Internship are strongly recommended.

ANT	101J	Anthropology: The Cultural View
ANT	201	Human Origins
HUM	223H	Life and Literature after Darwin
ITP	320	Occupational Safety and Health
MOS	300	Managing Organizations
NFS	252	Nutrition
NUR	302	Pharmacology
SBS	302	Eating Attitudes and Behaviors in Western Culture
SBS	308	Behavior, Health and Society
SBS	338	Health Care Policies
SBS	343	Substance Abuse
SCI	240	Applied Botany
SCI	310	Genetics Laboratory
SCI	315	Holistic Health/Alternative Healing

SCI	320	Human Embryology and Lab
SCI	350	Science Projects
SCI	370	Science Safety
SCI	385	Internship
SCI	390	Cellular Biology
SCI	450	Science in the Classroom
		Geology
		Physics
		Additional Chemistry

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### SCI 100K Natural Science Topics

This lecture and laboratory course centers on four major topics: the biosphere, food and nutrition, health and illness, and the new genetics. Through an integration of the natural sciences, the course applies basic concepts to an understanding of current issues. Social and ethical concerns are discussed. No prerequisites. Cr 4.

### SCI 105 Basic Chemistry

This is a short course (16 hours) designed to present the basics of inorganic, organic and biochemistry to students who have never taken chemistry or did so many years ago. Topics include the metric system, atomic structure, bonding, compounds, chemical equations and reactions, ions, pH, functional groups, carbohydrates, proteins, lipids and nucleic acids. The course satisfies the chemistry prerequisite for biology, microbiology, and for anatomy and physiology. Prerequisite: MAT 009 or concurrent. Cr 1.

*NOTE:* Before enrolling in any of the 100-level courses listed below students must have completed ENG 005 (or be taking it concurrently) and MAT 009 or passed the English and Mathematics Placement Examinations, or equivalent.

### SCI 170K Introduction to Physiology

This is the first course in a two-semester sequence in human anatomy and physiology. It also provides a foundation for all upper level science courses. The course introduces basic principles of physiology and anatomy through chemistry, cellular structure and function, genetics, evolution and embryology. In the context of these topics, other subjects discussed include nutrition, blood, metabolism, cancer, viruses and bacteria. Prerequisites: Students should have an understanding of basic biology and chemistry either through high school, GED, or by completing SCI 105 or SCI 100K. Cr 4.

### SCI 171K General Biology

The content and prerequisites of this course are the same as for SCI 170K. Cr 4.

### SCI 172 Human Anatomy and Physiology

This is the second course in a two-semester sequence in human anatomy and physiology. In this course the following topics will be studied: integumentary system, skeletal system, muscu-

lar system, nervous system, sense organs, digestive system, urological system, electrolytes, homeostasis, endocrine system, respiratory system, reproduction and cardiovascular system. Lecture and laboratory. Prerequisites: SCI 170K or SCI 171K. Cr 4.

### SCI 230 Zoology

This lecture and laboratory course introduces students to the science of zoology, the study of animals. The course surveys the structure, physiology, and habitat of invertebrate and vertebrate animals. Prerequisites: SCI 170K or a grade of B or higher in SCI 100K. Cr 4.

### SCI 240 Applied Botany

The growth, structure, reproduction, and physiology of plants will be studied, and the role of plants in human affairs will be discussed in this lecture and laboratory course. Prerequisites: SCI 170K or a grade of B or higher in SCI 100K. Cr 4.

### SCI 252 Medical Microbiology

This lecture and laboratory course introduces basic microbiology and focuses on the viruses, bacteria, protozoans, and multi-cellular organisms which cause human diseases. It also discusses the immune system. Prerequisite: SCI 170K. Cr 4.

### SCI 260 Environmental Issues

This course discusses global and local environmental issues. Cr 4.

### SCI 265 Marine Biology

Marine biology is the study of the interactions among the living organisms in the earth's oceans. We will investigate the relationships between the different marine trophic levels including: bacteria, plankton, nekton, algae, invertebrates, and vertebrates. Where possible, local examples will be utilized to illustrate these points. Field experiences will be encouraged at all levels of investigation. Interactions with Maine's shellfish, finfish, and marine agronomic efforts will be emphasized with onsite field work a significant part of the lab experience. Prerequisite: SCI 100K or BIO 170K or a biology course. Cr 4.

### SCI 309 Human Genetics

This course examines the role of heredity in human growth, development, and behavior. Decision making, ethical issues and societal

responsibilities related to genetic disorders will be discussed. Prerequisites: SCI 100K or SCI 170K. Cr 3.

### **SCI 310 Genetics Laboratory**

The laboratory in human genetics is designed to provide practical experience in genetics in order to better understand the mechanism of heredity. SCI 309 must be taken concurrently. Cr 1.

### **SCI 315 Holistic Health/Alternative Healing**

This course will present discussions of the role of exercise, diet, and fitness in the well-being of humans. It will also introduce students to alternative methods of healing such as meditation, reflexology, biofeedback, and acupuncture. Cr 3.

### **SCI 320 Human Embryology**

This lecture and laboratory course discusses how the human embryo is formed and the development and growth of the fetus until birth. The embryology of other vertebrates will be studied for comparison. Prerequisite: A grade of B or higher in SCI 100K or SCI 170K or equivalent. Cr 3.

### **SCI 350 Science Projects**

This course is an independent study under the direction of a faculty member. Students develop and complete a laboratory or library project. Cr 1-3.

### **SCI 370 Science Safety**

This 16-hour course is designed to discuss and demonstrate methods of assuring health and safety in the science classroom and laboratory. Cr 1.

### **SCI 380 Pathophysiology I**

This course examines the biology of noninfectious illnesses. Emphasis will be placed on cellular biology, cancer, immunity, inflammation and the cardiac, pulmonary and renal systems. Prerequisites: microbiology, human anatomy, and physiology. Cr 3.

### **SCI 381 Pathophysiology II**

This course examines the biology of noninfectious illnesses. The nervous, endocrine, digestive, hematological, reproductive, muscular and skeletal systems will be studied. Prerequisites: human anatomy and physiology. SCI 380 is not a prerequisite. Cr 3.

### **SCI 385 Internship**

Prerequisite: SCI 380/381. Cr 3.

### **SCI 390 Cellular Biology**

This course examines the structure and function of cells and cellular organelles in the context of their chemistry, metabolism, and reproduction. Prerequisites: SCI 170K, one year chemistry. Cr 3.

### **SCI 400 Senior Seminar**

A variety of health-related issues will be discussed. Students will be required to write a formal academic research paper. Prerequisites: Two SCI courses above 200. Cr 3.

### **SCI 402 Physiological Ecology**

This lecture and laboratory course studies the physiology of marine plants and invertebrate animals and the way plants and animals adapt to environmental changes. Cr 4.

### **SCI 450 Science in the Classroom**

This integrated lecture and laboratory course is designed for elementary teachers, summer camp counselors, parents, and others who wish to interest children in science. The course provides knowledge of basic science and gives examples of inexpensive experiments which children can perform. Emphasis is placed on integrating science with the arts, math, humanities and with social sciences. Prerequisites: two science courses. Cr 3.

## **B.A. Degree in Social and Behavioral Sciences**

This baccalaureate program provides students with an interdisciplinary approach to understanding human behavior. After completing the USM Core requirements, including basic courses in the social sciences, students will select a combination of courses which balance in-depth study of principles of human development with exposure to topics with direct relevance to careers in human services and helping professions. As in other programs in the College, students also complete an internship in order to apply their knowledge to local and contemporary situations.

Before taking 300-level courses in this major, students must have completed a 100-level college writing course with at least a grade of C. No more than two courses from outside the major may be used toward completion of the requirements for the major without permission of the faculty.

*Prerequisite Courses* (15 credits) to be taken before 300-level courses

Introduction to Sociology  
Introduction to Psychology I & II

## Cultural Anthropology

### Microcomputers and Applications

*Note:* These courses may also be used to satisfy Core curriculum requirements.

#### Requirements for the Major (24 credits)

HRD	333J	Human Growth and Development
SBS	300	Deviance and Social Control
SBS	328D	Statistics
SBS	329	Research Methods
SBS	370E	Ethics and The Organization
SBS	385	Internship
SBS	400	Senior Seminar
SBS	430	Applied Social Policy

#### *Electives* (18 credits)

Students will complete at least 6 of the following courses, selecting a minimum of two courses from each category:

##### *Fundamentals*

SBS	305	Child Development
SBS	306	Adolescence
SBS	307	Midlife and Adult Development
SBS	309	Human Genetics
SBS	311	Personality and Psychopathology
SBS	340	The Family
SBS	342	Gerontology
SBS	360	Culture, Behavior and Personality
SBS	390	Brain/Mind and Behavior

##### *Topics*

SBS	301	Abnormal Psychology
SBS	308	Behavior, Health and Society
SBS	316	Men, Women, and Work
SBS	335	Legal Issues in Health and Human Services
SBS	338	Health Care Policies
SBS	343	Substance Abuse
SBS	344	Violence, Aggression, and Peaceful Alternatives
SBS	350	Deviations of Childhood
SBS	411	Counseling and Psychotherapy

#### *Concentration in Counseling* (18 credits)

Students will complete 18 credit hours by selecting at least 6 of the following courses, a minimum of two courses from each category:

##### *Fundamentals*

SBS	305	Child Development
SBS	306	Adolescence
SBS	307	Mid-life and Adult Development
SBS	311	Personality and Psychopathology
SBS	360	Culture, Behavior and Personality

##### *Topics*

SBS	301	Abnormal Psychology
SBS	308	Behavior, Health and Society
SBS	343	Substance Abuse
SBS	350	Deviations of Childhood
SBS	411	Counseling and Psychotherapy

The Internship (SBS 385) must be completed in a counseling/clinical setting, approved by a faculty advisor.

The remaining electives may be selected from courses listed above or from other courses offered by Lewiston-Auburn College or by other accredited institutions. Selection of courses from the fields of anthropology, criminology, economics, political science, psychology and social work is recommended. Students may also work with their advisor to plan their own program focusing on future career or graduate school plans.

**SBS 300 Deviance and Social Control**

The course examines the historical and relative notion of deviance and the nature(s) and type(s) of social control. Cr 3.

**SBS 301 Abnormal Psychology**

An introduction to the etiology and classification of maladaptive behavior. The psychological, sociological, and biological bases for mental illness will be discussed. Cr 3.

**SBS 302 Eating Attitudes and Behaviors in Western Culture**

This course examines diet, food, and nutrition issues in Western culture. Students explore how eating attitudes and behaviors influence, and are shaped by, culture. Discussion includes health and fitness, media representations, the diet industry, body image, obesity, and eating disorders. Students gain insights into their own eating behaviors and attitudes as well as those of today's Western culture. Cr 3.

**SBS 305 Child Development**

This course examines the development and behavior of children from conception through middle childhood, and introduces topics in adolescence. Theoretical frameworks and research upon which current knowledge in child development is based will be considered, as well as applications to contemporary topics in child welfare and education. Prerequisite: HRD 333J recommended. Cr 3.

**SBS 306 Adolescence**

An overview of the psychological and social dimensions of adolescent development, including consideration of gender and group differences in the experience of the physical, cognitive, and social transformations of adolescence. Cr 3.

**SBS 307 Midlife and Adult Development**

A consideration of major physical, personality, and social processes experienced by midlife adults in our society. Stage models of adult development will be critically examined, as will such topics as the effects of changing societal contexts on midlife. Course material will be applied to midlife portrayals in folk tales and fiction. Cr 3.

**SBS 308 Behavior, Health and Society**

A survey of the psychological, sociological, and cultural dimensions of health and illness. Consideration will be given to contemporary health issues such as stress, the sick role, health promotion, mind-body connections, and the relationship between socioeconomic factors and health. Cr 3.

**SBS 309 Human Genetics**

This course will examine the role of heredity in human growth, development and behavior.

Decision making, ethical issues and societal responsibilities related to genetic disorders will be discussed. Cr 3.

**SBS 310 Human Genetics Lab**

This laboratory course will provide students with practical experience to supplement SBS 309. Cr 1.

**SBS 311 Personality and Psychopathology**

This course examines the historical, biological, sociological, and psychological bases of the development of personality and mental health. Differing theoretical frameworks and current research will be discussed. Particular attention will be given to cultural factors. Cr 3.

**SBS 312 Foundations in Criminology**

A survey course of the social and cultural factors that influence crime and delinquency. Focus will be on misconceptions and myths about crime and the institutional responses to crime in our society. Cr 3.

**SBS 328D\* Statistics**

Introduction to and application of descriptive statistics, sampling and significance testing, correlation and regression analysis. Evaluation methods will be explored. Statistical packages available on computers will be used. Emphasis will be on the interpretation and analysis of statistical decision making. Prerequisite: MAT 010 or equivalent. Cr 3.

**SBS 329 Research Methods**

An introduction to quantitative and qualitative research methods which can be used in organizational planning and decision making and in the social and behavioral sciences. The course will cover topic areas related to the application of appropriate methods of inquiry. Prerequisite: SBS 328D. Cr 3.

**SBS 335\* Legal Issues in Health and Human Services**

Examines current legal issues affecting the management and delivery of human services including the protection of the rights of both clients and workers. Cr 3.

**SBS 338\* Health Care Policies**

This course provides a comprehensive introduction to health care policy and the organization of the American health care system. Critical issues confronting the consumption, delivery, and financing of health care will be considered. Health care systems in other countries and around the United States will be examined. Cr 3.

**SBS 340 The Family**

A contemporary approach to the study of the family. Includes an examination of family structures, familial relationships, and the impact

of social and psychological change on these structures and relationships. Cr 3.

### **SBS 342 Gerontology**

A review of current theories and issues related to aging. Consideration will be given to physical, psychological, and sociological aspects of aging as well as cultural perspectives regarding the elderly. Cr 3.

### **SBS 343 Substance Abuse**

This course considers patterns of use of drugs, the bases of their effects and associated harms, and the history of and current options for prevention and intervention efforts. Emphasis is on the role of society and public policy in influencing our thinking and behavior concerning substance use and abuse. Cr 3.

### **SBS 344\* Violence, Aggression, and Peaceful Alternatives**

This course studies violence and the possibilities of living peacefully as explored in psychological and sociological works, in fiction, drama, and poetry, and in writings on anthropology and religion. The course reviews the causes of violent and aggressive behaviors and specific approaches to the creation of a more peaceful society. Cr 3.

### **SBS 350 Introduction to Deviations of Childhood**

Readings and discussion of the etiology and manifestation of deviant patterns of behavior in children. Topic areas will be considered from both a psychological and sociological perspective. Cr 3.

### **SBS 360 Culture, Behavior and Personality**

An examination of interactions between culture, behavior, and personality through the life span. Cross-cultural variations and commonalities in child rearing practices, emotional expression and gender roles are among topics to be considered. Varied theoretical models of the relationship between individual development and culture will be reviewed. Prerequisites: Introductory Psychology or Anthropology. Cr 3.

### **SBS 370E\* Ethics and the Organization**

Explores the ethical dimensions of private- and public-sector decision making. Draws on concepts and theories from ethics and other disciplines, especially the social sciences, and applies them to ethical issues and dilemmas faced by individuals and organizations. Cr 3.

### **SBS 385 Internship**

Prerequisites: two 300/400-level SBS courses. Cr 3.

### **SBS 390 Brain/Mind and Behavior**

Survey of biological and environmental factors affecting the relationship between brain/mind and behavior. Topics will include brain organization, neural transmission, stress and emotion, learning, memory, violence, psychopathology, and the development of consciousness. Cr 3.

### **SBS 398 Independent Study**

Prerequisite: junior standing and permission of instructor. Cr 3.

### **SBS 399 Special Topics**

Cr 3.

### **SBS 400\* Senior Seminar**

The goal of this seminar is to allow students to integrate their previous coursework as they design and complete a capstone research and writing project. Students are asked to identify their own topic, information sources and learning objectives with assistance from the instructor and their assigned student work group. Each student must demonstrate self-directed learning and the ability to write a formal paper. Prerequisite: senior standing or permission of the instructor. Cr 3.

### **SBS 411 Counseling and Psychotherapy**

A study of conceptual and empirical foundations of psychological counseling. Alternative models of counseling will be explored in relation to theories of personality development and functioning. Focus will be on counseling approaches in community mental health areas such as child abuse, substance abuse, suicide prevention and crisis intervention. Prerequisite: SBS 311. Cr 3.

### **SBS 430 Applied Social Policy**

A review of contemporary social policy alternatives and an examination of the macro- and micro-level social policy making processes. Students complete an applied social policy project which might take the form of a policy paper, a grant proposal or written legislative testimony for a community agency. Prerequisite: junior standing or permission of the instructor. Cr 3.

\*These courses are cross-listed with the corresponding MOS or HUM courses.

# B.S. Degree in Management and Organizational Studies

The baccalaureate degree in management and organizational studies (MOS) combines a liberal arts program with a specialization for individuals who are currently or hope to be in managerial positions or who wish to understand how to work more effectively in an organization. This degree attempts to distinguish itself from traditional management or business programs by its emphasis on understanding and working with people, by its broad approach that incorporates the liberal arts tradition, by its interdisciplinary focus, by drawing on faculty from diverse backgrounds, and by its practical application of concepts and theories. This program is designed to prepare students for positions in the private or public sector, human service, and governmental organizations.

Students will take the comprehensive Core curriculum of the University of Southern Maine to provide a well-rounded liberal arts background. The core courses of the MOS major will introduce students to the theory and practice of organizational behavior and management. The MOS program is not a traditional business degree.

A critical component of this degree program is the internship. With the assistance of a faculty mentor, students identify an organization within which they would like to put into practice the theories and skills gained from coursework.

In addition to completing these specific course requirements for the major, baccalaureate degree students must meet the proficiency requirements of the University of Southern Maine as well as the complete Core curriculum. To complete the baccalaureate degree, students must complete a minimum of 120 credit hours of coursework. Prerequisites to major courses may be met through specific courses, through any one of several programs of Prior Learning Assessment sponsored by USM, or through waiver by the instructor of the course.

Before taking 300-level courses in this major, students must have completed a 100-level college writing course with at least a grade of C. No more than two courses from outside the major may be used toward completion of the requirements for the major without permission of the faculty.

## *Requirements for the Major*

### MOS Core (27 credits)

MOS	300	Managing Organizations
MOS	304	Organizational Finance
MOS	328D	Statistics
MOS	340	Managing Organizational Change and Development
MOS	370E	Ethics and the Organization
MOS	385	Internship
MOS	400	Senior Seminar
MOS	410	Interpersonal Behavior in Organizations Microcomputers and Applications

Students who plan to attend graduate school or pursue careers in consulting or human resource management should also enroll in MOS 329 Research Methods.

### Individual Concentration (18 credits)

While taking the MOS Core, each student will work closely with a faculty advisor to identify six MOS electives (18 credits) that will complete the requirements for the major. The advisor will also assist the student in selecting the remaining courses necessary for the degree.

When choosing electives, students may wish to consider the following concentration areas:

### Organizational Development

MOS	312	Human Resource Management
MOS	314	Employee Relations
MOS	316	Men, Women and Work
MOS	355	Organizations and the Humanities
MOS	386	Field Project in Organizational Studies
MOS	395	Using Computers in Organizations
MOS	420	Organizational Theory

Public Affairs		
MOS	322	Introduction to Public Affairs
MOS	323	Campaigns, Elections, and the Media
MOS	325	Management of State and Local Government
MOS	338	Health Care Policies
MOS	355	Organizations and the Humanities
MOS	386	Field Project in Organizational Studies
MOS	395	Using Computers in Organizations
MOS	420	Organizational Theory
Human Services		
MOS	325	Management of State and Local Government
MOS	335	Legal Issues in Health and Human Services
MOS	338	Health Care Policies
MOS	355	Organizations and the Humanities
MOS	386	Field Project in Organizational Studies
MOS	395	Using Computers in Organizations
MOS	420	Organizational Theory
MOS	430	Applied Social Policy
Employee Health and Wellness		
MOS	301	Workers' Compensation
MOS	302	Managing Health and Wellness Programs in Organizations
ITP	320	Occupational Safety and Health
REC	219	Lifetime Physical Fitness and Wellness
SCI	170K	Introduction to Physiology
Optional		
SCI	172	Human Anatomy and Physiology
SBS	301	Abnormal Psychology
SBS	343	Substance Abuse
MOS	338	Health Care Policies
MOS	312	Human Resource Management
HRD	333J	Human Growth and Development

### **MOS 300 Managing Organizations**

Provides an overview of modern management methods. Current managerial problems are analyzed using structural, human resource, cultural, and political frameworks and the case method. Issues include leadership, organizational design, planning, decision making, communication, and control. A good course for students interested in how organizations work. Cr 3.

### **MOS 301 Workers' Compensation**

This course discusses workers' compensation laws. Cr 3.

### **MOS 302 Managing Health and Wellness Programs in Organizations**

This course discusses how to design, implement, and manage wellness programs in organizations. Cr 3.

### **MOS 304 Organizational Finance**

Assesses the theory and practices of financial management in different forms of public and private organizations. Emphasizes the relationship between financial decision making and organizational policy and strategy. Topics covered will include: fund accounting principles, financial forecasting, the use of spread sheets, and budgeting. Prerequisite: MOS 300 and one semester of accounting. Cr 3.

### **MOS 312 Human Resource Management**

Focuses on the procedures and processes associated with the management of human resources within organizations. Topics include recruitment, staff development, job analysis, personnel systems, and training. Cr 3.

### **MOS 314 Employee Relations**

Provides an understanding of the trends in legal, social, and economic aspects of United States labor-management relations. Topics include a historical overview of labor law, grievance procedures, the negotiation process, equal opportunity, and personnel rules. Includes case studies and simulated bargaining and arbitration exercises. Cr 3.

### **MOS/SBS 316 Men, Women, and Work**

Examines historical perspectives on work, the nature and meaning of work for men and women, similarities and differences between men and women that affect work, and the impact of work on men and women. Students will read from work in psychology, sociology, literature (fiction, drama, poetry), and management and organizational behavior. Cr 3.

### **MOS 322 Introduction to Public Affairs**

Examines the basic processes through which public policy is formulated, adopted, and



implemented in the United States. Prerequisite: junior standing or permission of the instructor.

Cr 3.

### **MOS 323 Campaigns, Elections, and the Media**

Explores the implications of political campaigns in American politics. Topics include management of campaigns, candidate recruitment, positive and negative advertising, political consultants, political parties and interest groups, effects of media coverage, campaign financing, and impact of campaigns and elections on public policy. Special consideration will be given to current campaigns.

Cr 3.

### **MOS 325J Management of State and Local Government**

Introduction to the structure, roles, and processes of administration in state and local government. The state of Maine is a special focus of the course.

Cr 3.

### **MOS 328D\* Statistics**

Introduction to and application of descriptive statistics, sampling and significance testing, correlation and regression analysis. Evaluation methods will be explored. Statistical packages available on computers will be used. Emphasis will be on the interpretation and analysis of statistical decision making. Prerequisite: MAT 010 or equivalent.

Cr 3.

### **MOS 329 Research Methods**

An introduction to quantitative and qualitative research methods which can be used in organizational planning and decision making and in the social and behavioral sciences. The course will cover topic areas related to the application of appropriate methods of inquiry. Strongly recommended for students going on to graduate school, careers in consulting, or human resource management. Prerequisite: MOS 328D

Cr 3.

### **MOS 335\* Legal Issues in Health and Human Services**

Examines current legal issues affecting the management and delivery of health and human services including the protection of the rights of both clients and workers.

Cr 3.

### **MOS 338\* Health Care Policies**

This course provides a comprehensive introduction to health care policy and the organization of the American health care system. Critical issues confronting the consumption, delivery, and financing of health care will be considered. Health care systems in other countries and around the United States will be examined.

Cr 3.

### **MOS 340 Managing Organizational Change and Development**

Explores the process of organizational change and how to manage change effectively. Topics

covered include diagnosing the need for change, choosing the best method, implementing planned change, and dealing with resistance to change. Prerequisite: MOS 300 or permission of instructor.

Cr 3.

### **MOS 355\* Organizations and the Humanities**

Examines organizations and organizational behavior in literature, film, drama, art, or music as well as traditional readings in organizational behavior.

Cr 3.

### **MOS 370E\* Ethics and the Organization**

Explores the ethical dimensions of private- and public-sector decision making. Draws on concepts and theories from ethics and other disciplines, especially the social sciences, and applies them to ethical issues and dilemmas faced by individuals and organizations.

Cr 3.

### **MOS 385 Internship in Management and Organizational Studies**

Prerequisites: MOS 300 and two 300/400-level MOS courses.

Cr 3.

### **MOS 386 Field Project in Organizational Studies**

Students will work in a team to apply organizational concepts and theories to a real-life organizational situation. Prerequisite: permission of instructor.

Cr 3.

### **MOS 395 Using Computers in Organizations**

An introduction to the ways in which computers may be used by individuals and groups in organizations. Both computer hardware and software will be considered. Discussion will include the types of questions managers should consider in deciding on management information systems for their organizations. Prerequisite: LAC 150 or permission of instructor.

Cr 3.

### **MOS 398 Independent Study**

Prerequisites: MOS 300 or junior standing and permission of instructor.

Cr 3.

### **MOS 399 Special Topics**

Topics offered will cover current special issues in organizations and/or the study of organizations through alternative methods. Prerequisites: MOS 300 or permission of the instructor.

Cr 3.

### **MOS 400\* Senior Seminar**

The goal of this seminar is to allow students to integrate their previous coursework as they design and complete a capstone research and writing project. Students are asked to identify their own topic, information sources, and learning objectives with assistance from the instructor and their assigned student work group. Each student must demonstrate self-directed learning

and the ability to write a formal paper. Prerequisite: senior standing or permission of the instructor. Cr 3.

### **MOS 410 Interpersonal Behavior in Organizations**

Focuses on understanding individual, interpersonal, and group behavior in organizations with an emphasis on learning the knowledge and skills needed for success in organizations. Covers such topics as perception, personality, individual differences, motivation, communication, managing groups, leadership, power, and managing conflict. Prerequisite: MOS 300 or permission of instructor. Cr 3.

### **MOS 420 Organizational Theory**

Examines the behavior of organizations from a macro perspective. Topics include organiza-

tional structure, culture, technology, the design of work, organizational change, the relationship of an organization to its external environment, and organizational effectiveness. Prerequisites: MOS 300 and senior standing. Cr 3.

### **MOS 430\* Applied Social Policy**

A review of contemporary social policy alternatives and an examination of the macro and micro-level social policymaking processes. Students complete an applied social policy project which might take the form of a policy paper, a grant proposal or written legislative testimony for a community agency. Prerequisite: junior standing or permission of the instructor. Cr 3.

\*These courses are cross-listed with the corresponding SBS or HUM courses.

## **Master's Degree in Occupational Therapy (MOT)**

Occupational therapy is one of the fastest growing fields in health care. Occupational therapy is a health and rehabilitation profession that uses activities as treatment to help people of all ages perform the skills they need to live as independently as possible. Occupational therapists evaluate and treat people with varying degrees of physical and psychological impairment. The specific disability may be the result of a birth defect, illness, injury, or the aging process. Emphasis is placed on activities of daily living related to work, self-care, and leisure.

A master's degree in occupational therapy is offered for people who have an undergraduate degree in a field other than occupational therapy. It is recommended that students who are interested in applying for admission to this graduate program complete an undergraduate major in either social and behavioral sciences or natural and applied science. Regardless of major, students interested in applying to the MOT program must complete the concentration listed below. These prerequisite courses must be passed with a grade of at least B- within six years prior to the date of application to the graduate program. Completing the prerequisites does not guarantee admission to the occupational therapy master's program.

<i>Undergraduate Occupational Therapy Concentration</i>	<i>Credits</i>
College Algebra	3
College-level English	6
(at least 3 credits must focus on writing; HUM 135I or HUM 136I may be substituted for a writing course)	
Introduction to Sociology	3
(or an upper level sociology course)	
General Psychology	3
(or an upper level psychology course)	
Human Growth and Development	3
Cultural Anthropology	3
Introduction to Physiology	4
Anatomy and Physiology	4
Microcomputers	3
For additional information concerning the application process and requirements consult the graduate catalog or the program director.	

## B.S. in Industrial Technology

Option II of the B.S. degree in industrial technology is extended from USM's School of Applied Science to Lewiston-Auburn College. For more information, contact Kathy Demers at Lewiston-Auburn College (207-783-4860) or Bill Ford at the School of Applied Science (207-780-5325). This program links very closely with academic programs at Central Maine Technical College. Students must complete their technical requirements at Central Maine Technical College or other institution and may receive credit for technical experience.

## B.S. in Nursing

Students who are R.N.s are able to complete the B.S.N. degree at Lewiston-Auburn College. For more information about this R.N. Studies program, contact Brenda Webster in the School of Nursing (207-780-4802) or Kathy Demers at Lewiston-Auburn College (207-783-4860).

# Division of Academic Support

*Executive Director:* John W. Bay

*Director, Learning Assistance:* Robert E. Lemelin; *Coordinator of Developmental Math:* Bruce A. Allen; *Coordinator, The Learning Center:* Frank K. Carner; *First Year Alternative Experience Director:* Toni Passerman; *Academic Counselor, FYAE:* Jody Meredith; *Coordinator for Academic Support Services for Students with Disabilities:* Joyce Branaman; *Faculty Liaison:* Ann Clarey

### Learning Assistance

Developmental courses provide students with instruction to help them achieve proficiency in writing (ENG 009), in mathematics (MAT 009), and in critical reading skills (RDG 009). The Learning Center offers tutoring in writing, math, study skills, and word processing. In addition, the Center makes self-instructional materials available. The Academic Support for Students with Disabilities Office works with students to foster alternative learning strategies. First Year Alternative Experience integrates developmental coursework, tutoring, and academic counseling for a select group of students. Freshman Seminar (FRS100) assists new students with the transition into higher education. The course helps provide a strong foundation on which to build an academic career. A variation of this course (FRS 101, FRS 102) is required of all students in the First Year Alternative Experience.

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### ENG 009A Developmental Writing

This course is designed to help students who need to develop proficiency to enter ENG 100C, College Writing. ENG 009 is taken on a pass/fail basis. Credit earned in ENG 009 does not apply or accumulate toward any degree program at the University of Southern Maine. Cr 3.

### ABU 119 Business Communication

This course introduces students to business communication strategies and provides practice in the application of those strategies using the case method. Students compose business letters, reports, and employment writing. (Formerly ENG 019) Prerequisite: ENG 100C. Cr 3.

### DBS 122 Career Development

Designed to assist students in developing a career plan and to investigate the work world in terms of career goals. Experiences will include inventory-awareness exercises, career exploration with field visitations, and preparation with résumé construction and interview procedures. Cr 1.

### FRS 100 University Seminar

This course is designed to enhance a student's academic success by providing an introduction to the many facets of the University. Selected topics include critical reading and writing, critical thinking, enhancing study and communication skills. The class format allows for a great deal of faculty/student interaction. Cr 3.

### **FRS 101 Introduction to the Academic Experience I**

This course provides students with the tools to help assure success in college. The course exposes students to practical skills and to new and different perspectives on learning. Required of all students in the First Year Alternative Experience. Cr 3.

### **FRS 102 Introduction to the Academic Experience II**

A continuation of FRS 101, this course expands upon critical thinking, reading, and writing skills by exposing students to a breadth of readings from the humanities and social sciences. Required of all students in the First Year Alternative Experience. Cr 3.

### **MAT 009 Developmental Mathematics**

A review of fundamental topics of arithmetic needed for a study of algebra. Topics include fractions, decimals and integers; ratios and proportions; percent; exponents, average and square roots; and solving word problems and equations. This course is taken on a pass/fail basis only. Credit earned in MAT 009 does not apply or accumulate toward any degree program at the University of Southern Maine. Cr 3.

### **MAT 010 Elementary Algebra**

The first course of a two-course sequence designed for students who are deficient in high school algebra. Topics include basic operations with integers and rational numbers, equations with variables, algebra word problems, operations with polynomials and algebraic fractions (including factoring), and operations with exponential and radical expressions. Prerequisite: MAT 009 or its equivalent. Associate degree credit only. Cr 3.

### **MAT 011B Intermediate Algebra**

A continuation of MAT 010. Topics include graphing linear equations in two variables, quadratic equations, functions and relations, conic sections, solutions to systems of equations, solutions for inequalities, and exponential and logarithmic functions. Prerequisite: one year of high school algebra or MAT 010. Associate degree credit only. Cr 3.

### **RDG 009 Critical Reading Skills**

Provides opportunities for students to develop the critical reading skills needed at the college level. Students must demonstrate mastery at the end of the course. This course is taken on a pass/fail basis. Credit earned in RDG 009 does not apply to or accumulate for any degree program at the University of Southern Maine. Cr 3.

## **Department of Military Science**

*Army ROTC* Army ROTC offers currently enrolled students of the University an opportunity to earn a commission in the United States Army while pursuing a bachelor's degree. Please note that this program is being phased out and no new admissions are being accepted. The program is sponsored and offered through the Army ROTC Battalion at the University of New Hampshire, Durham, New Hampshire. Students register for military science courses as part of their regular undergraduate curriculum. Classes for the Basic Course, freshman and sophomore years, may be taken at UNH or Saint Joseph's College, through the Greater Portland Alliance of Colleges and Universities agreement. For more information call the Department of Military Science at UNH (collect) at (603) 862-1078.

Students who successfully complete or receive credit for the Basic Course may apply to the professor of military science for admission to the Advanced course. If admitted, the student receives \$150 per month during his/her junior and senior years. Students who successfully complete the Advanced Course may be offered a commission as a second lieutenant in the United States Army, and can be appointed in the National Guard, the Army reserve, or the active Army.

*Scholarships* The Reserve Officer Training Corps offers scholarships which pay tuition, education fees, lab fees, and a fixed amount for textbooks, supplies, and equipment. In addition, winners receive an allowance of up to \$1,500 each school year the scholarship is in effect.

The ROTC Scholarship Program is highly competitive. The selection procedure includes an evaluation of academic potential and performance, physical condition, degree of demonstrated motivation towards officership in the Army, and the results of a personal interview with the professor of Military Science.

### *The Advanced Course*

Upon successful completion of the Basic Course or receiving advanced placement status approved by the professor of Military Science, students who are eligible to contract may enter the pre-commissioning phase of their military leadership training. The courses listed below are required for completion of the Advanced Course and commissioning as a second lieutenant.

**MIS 331 Leadership Doctrine and Theory**  
Leadership Doctrine and Theory is the collection of teaching and principles applied to the practice of leadership. It provides the basis and framework for all leader actions. Attention will be given to important principles of leadership. The course encompasses weekly classroom instruction, Leadership Lab, and one weekend Field Training Exercise. Prerequisites: Basic Course, MIS 229 or Active Duty experience, permission of professor of Military Science. Cr 3.

**MIS 332 Leadership Application**  
This course is an intensive preparation for Advanced Camp. It develops knowledge in small unit tactics, land navigation, and physical conditioning. The accumulated leadership skills and knowledge are employed and evaluated in practical exercises throughout the course curriculum. The course encompasses classroom instruction and physical conditioning, Leadership Lab, weekend Field Training Exercise, and a mini-camp prior to attendance of Advanced Camp. Prerequisites: MIS 331, permission of instructor. Cr 3.

### **MIS 441 Advanced Leadership I: Military Management**

This course is designed to enhance the senior students leadership development and to prepare the cadet to transition to an Army officer. It will review management theory; personnel, logistics and training management systems; and military law. The pre-commissioning assessment of officership potential will continue. Student participation in leadership laboratory is required. Prerequisites: MIS 332, successful completion of advanced camp, and permission of instructor. Cr 3.

### **MIS 442 Advanced Leadership II: Small Unit Leadership Seminar**

This course is designed as a final preparation for cadets to assume the leadership responsibilities inherent in their commissions as second lieutenants, United States Army. It will review the organization and functions of the Department of Defense and the U.S. Army; threats to national security; small unit tactical operations; the ethics of leadership; training individual soldiers and platoons; professional writing and speaking; troop leading procedures; and personal planning and financial management. Student participation in leadership laboratory is required. Prerequisite: MIS 441. Cr 3.

### **MIS 499 Advanced Leadership III: Independent Study**

A concentrated program of research into a particular topic selected by the student, mentored by a faculty member and approved by the professor of Military Science. Cr 1-6.

### *Air Force ROTC*

Two-year and four-year Air Force Reserve Officer Training (AFROTC) programs are sponsored and offered by Detachment 475 located at the University of New Hampshire, Durham, New Hampshire.

The four-year program is open to freshmen or transfer students. This program allows "trying out" Air Force ROTC for up to two years without incurring any obligation unless the cadet is on an Air Force scholarship.

The two-year program is offered to students who have at least two years of undergraduate or graduate work remaining before entering the Air Force.

Entering freshmen may compete for four-year scholarships during their senior year of high school. Three-year and two-year scholarships covering all or part of tuition, certain fees, and books are also available. All scholarship recipients receive a \$150 per month subsistence allowance. All non-scholarship cadets receive \$150 per month subsistence allowance for the last two years of the program.

The first two years of the Air Force program require one hour of class and two hours of Leadership Lab per week. The remaining two years require three hours of class and two hours of Leadership Lab per week.

The following Air Force ROTC, Detachment 475 courses and labs are held on the University of New Hampshire Campus in Durham, NH:

AFL 000 Leadership Laboratory

- AFL 341-342 The Development of Air Power I & II, Sophomore Year
- AFL 471-472 Air Force Management and Leadership I & II, Junior Year
- AFL 481 National Security Forces in Contemporary American Society, Senior Year
- AFL 482-483 The Military Profession I & II, Senior Year

After qualifying for either ROTC program, the cadet must see the Registrar of the University of Southern Maine for the proper registration procedures. Students may enroll in the ROTC programs under the crosstown agreement at no extra cost.

For additional information regarding either of these programs the student should contact Air Force ROTC Detachment 475, University of New Hampshire, at (603) 862-1480.

*Leadership Laboratory* is required each semester of all Air Force ROTC students seeking commissions as second lieutenants in the U.S. Air Force upon graduation. Students taking Air Force ROTC courses for credit, but not seeking commissions, need not register for this lab.

#### **AFL 000 Leadership Laboratory**

Taken by all AFROTC cadets throughout enrollment in AFROTC. Command and staff leadership experiences in cadet corps. Air Force customs and courtesies, drill and ceremonies, career opportunities, and life and work of the junior officer. Student leadership potential developed in a practical, supervised laboratory. Field trips to Air Force installation. Cr 0.

#### **AFL 115 The Air Force Today I**

Officership, custom and courtesies, Air Force organization, and Air Force current events are discussed. Cr 1.

#### **AFL 142 The Air Force Today II**

Air Force installations, career opportunities, fundamentals of air and space flight, and U.S. defense policy are discussed. Cr 1.

#### **AFL 341 The Development of Air Power I**

The nature of warfare; development of air power from balloons and dirigibles through World War II. Cr 1.

#### **AFL 342 The Development of Air Power II**

Development of air power from post-World War II through the peaceful use of air power in Berlin; the Cuban crisis; air war in Southeast Asia; and research and development of present and future aerospace vehicles. Cr 1.

#### **AFL 471 Air Force Management and Leadership I**

An integrated management course emphasizing the individual as a manager in the Air Force. Motivation and behavior, leadership, communication, group dynamics, and decision making in a changing environment. Air Force case studies. Cr 4.

#### **AFL 472 Air Force Management and Leadership II**

Organizational and personal values; management of forces in change; organizational power, politics, managerial strategy, and tactics; Air Force cases studied. Cr 4.

#### **AFL 481 National Security Forces in Contemporary American Society I**

Focus on the armed forces as part of American society, emphasizing civil-military relations in context of U.S. policy formulation and implementation. Requirements for adequate national security forces; political, economic, and social constraints on the national defense structure; impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy. Cr 4.

#### **AFL 482 National Security Forces II**

Focus on classical and current topics in officership, military ethics, Laws of Armed Conflict, and current Air Force issues. Focus on Air Force doctrine, socialization processes, Air Force structure, Air Force writing and military law. Cr 4.

# Graduate Programs

Office of Graduate Affairs, 39 Exeter St., Portland, 780-4386

The following graduate programs are available at the University of Southern Maine. The programs are described in detail in the graduate catalog.

## Master of Arts

American and New England Studies  
Public Policy and Management

## Master of Science

Adult Education  
Computer Science  
Education – Counselor Education  
Education – Educational Administration  
Education – Industrial Education  
Education – Instructional Leadership  
Education – Literacy Education  
School Psychology  
Special Education  
Statistics

## Other Master's Degrees

Master of Business Administration  
Master of Manufacturing Management  
Master of Occupational Therapy  
Master of Science in Applied Immunology  
Master of Science in Nursing

## Professional Degrees

Doctor of Law (Juris Doctor)

# School of Law

*Dean:* Donald N. Zillman; *Associate Dean:* Michael Lang

*Professors:* Cluchey, Delogu, Friedman, Gregory, Kandoian, Khoury, Lang, Loper, Mullane, Potter, Rieser, Rogoff, Ward, Wells, Wroth, Zarr; *Professor Emeritus:* Godfrey; *Visiting Associate Professors:* Bernstein, Soifer, Tousignant

The University of Maine School of Law is a small school that has long offered a high quality of legal education to a carefully selected student body. With a fine faculty, excellent library resources, and a nationally oriented curriculum strong in basic legal courses, the Law School takes pride in educating men and women who will become capable and motivated attorneys.

The academic program is rigorous and demanding. Thanks to the School's size, however, its students have the benefit of small classes, frequent and informal contact with the faculty, and a friendly atmosphere. These factors do much to ease the strains attendant upon entry to an exacting profession.

The School averages 80-90 students per class, of whom approximately 50 percent are women; the number of students in the School is about 260, making it one of the smallest in the country. The student body is remarkably varied in age, professional and academic experience, and background.

The School's faculty consists of 16 full-time and a number of part-time instructors. It is drawn from many specialties and represents a diversity of backgrounds and interests.

The School is fully accredited by the American Bar Association and is a member of the Association of American Law Schools.

Established at Portland in 1961, the Law School is the successor to the University of Maine College of Law which existed in Bangor from 1898 to

1920 and later Portland-based private law schools. It is an administrative unit of the University of Southern Maine, but has responsibilities to the statewide University system. The school is located in a building, accessible for handicapped students, that provides facilities for classroom and seminar discussion, library research, moot court participation, clinical practice, legal publications, and student activities.

## Center for Teaching

Established in 1993, the Center for Teaching is a campus-wide, faculty-based effort providing professional development opportunities and resources for faculty who strive for teaching excellence. Center programs are developed by a director working with an advisory board and draw on the expertise of faculty at USM. In addition, the Center publishes a newsletter with ideas for enhancing teaching effectiveness.

## Office of Sponsored Programs

### *Pre-award Services*

The University Office of Sponsored Programs (UOSP) is responsible for encouraging externally funded initiatives in support of program-related activities of academic, research, and administrative units; and serves as the major resource to faculty and staff who wish to pursue such projects. The Office maintains information on and promotes an awareness of funding opportunities, assists in refining project ideas and matching them with a potential sponsor's priorities and requirements, and helps in the preparation of financial and administrative sections of grant applications.

### *Grantmanship Center*

The University Office of Sponsored Programs also maintains a collection of The Foundation Center's publications and a variety of supplementary materials in areas useful to grantseekers. This collection consists of: Annual Register of Grant Support; Directory of Research Grants; Foundation Directory & Supplement; Foundation Grants to Individuals; Foundation Grants Index Quarterly; Foundation Grants Index; National Directory of Corporate Giving; National Guide to Funding in Higher Education; Subject Area Grant Guides; and The Foundation 1000.

The collection is located in the UOSP's Grantmanship Center in the Law School Building, Room 628, on the Portland campus (Telephone: 780-4411, FAX: 780-4417, Email: PSCOTT@MAINE). In addition to the core collection above, the Center regularly receives many non-circulating grant-related publications.

A Satellite Grantmanship Center is located in Bailey Hall, Room 301 on the Gorham Campus. This Center is a collaborative effort with the College of Education and Human Development under the direction of Professor Libby Cohen in the Center for Educational Policy, Applied Research, and Evaluation (telephone: 780-5044, FAX: 780-5315, Email: LCOHEN@USM.MAINE.EDU). The Center is open by appointment.

### *Post-award Services*

The UOSP also provides fiscal management assistance and administrative support to principal investigators and project directors after an award is received. This includes review and approval of all award documents, preparation and submission of financial reports, requests for reimbursement, budget revisions, amendments, etc. These post-award services are a collaborative effort on the part of the UOSP staff, the investigators, and the directors. These services begin with receipt of an award and continues through the termination date, ending with a final program report prepared by the investigators or directors, and a final financial report prepared by the UOSP staff.



# Wolfe's Neck Farm

Wolfe's Neck Farm, a gift to the University from Mr. and Mrs. L.M.C. Smith, is located on the coast of Maine in nearby Freeport. The farm operates as a demonstration of sustainable agriculture, working in concert with the environment. Groups are encouraged to visit the farm to witness the careful stewardship of the land, the husbandry of the beef cattle, and the rich tradition of small scale New England agriculture.

The Stone House at Wolfe's Neck is used as a conference site for small- to medium-sized meetings on topics related to the environment, society, and education. It combines all the services and space necessary for any modern meeting with the isolation and quiet of its location to provide an ideal spot for a conference site.

Recompence Shore Campground, with over 100 oceanside campsites, is also located at Wolfe's Neck. The Campground provides overnight camping and recreational opportunities for the general public.

For more information, please call (207) 865-4469 for the farm; 865-3428 for the Stone House; and 865-9307 for Recompence (January 15–mid October).

## Office of Public Service

*Executive Director:* William G. Mortensen

*Assistant to the Executive Director:* Ellen M. Corkery

The University has a well-defined commitment to provide organized public service activities for the intellectual, educational, economic, environmental, social, and cultural enhancement of the state. The Office of Public Service is the focal point for developing policy and central services for noncredit programs as USM seeks to broaden educational access and lifelong learning opportunities for southern Maine citizens. Among its duties the Office manages the Continuing Education Unit (CEU) recordkeeping system and coordinates the campus access to the University of Maine System's Public Service Resource Network (UMSServe).

### *UMSServe*

The University of Maine System Public Service Resource Network is a network database that contains more than 1,000 listings of public service programs, facilities, and University of Maine System experts available for assistance to individuals and organizations. UMSServe coordinators on each campus help users reach the service they need. The UMSServe telephone number at USM is 780-5928.

### *CEU System*

The Continuing Education Unit is a nationally accepted measurement of participation in noncredit continuing education. Each year, thousands of people use CEUs for retaining professional certifications, licenses, and association memberships. USM maintains cumulative transcripts for everyone who takes CEU-bearing programs through one or more of its noncredit program departments. The CEU Processing Office telephone number is 780-5920.

For further information on any of these areas, call the Department telephone numbers listed or the Office of Public Service at (207) 780-5920.

The following departments are affiliated with the Office of Public Service.

## Center for Continuing Education

*Director:* Joanne K. Spear; *Director of Health Professions:* Mary Ann Rost; *Director of Business Programs:* Paul W. Bayliss; *Directors of Community Programs:* Nancy Viehmann and Susan Sinclair; *Assistant Directors:* Ellen J. Farnsworth, Michael H. Nash; *Program Coordinator:* Sharon D. Hansen

The Center for Continuing Education provides opportunities for people to increase their understanding of themselves, their work, their community, and their world. The Center's noncredit programs address emerging trends and enhance professional, personal, and organizational capacities, with particular emphasis on the business, nonprofit, and health care fields.

Professional development offerings include certificate programs in paralegal studies, quality improvement, management, human resource management, office management, nursing leadership, basic and advanced computer proficiency, conflict management, advanced mediation, advanced facilitation, health care management, marketing, supervision, and nonprofit development. The Center also offers the Integrated Management Program and programs in leadership, community problem solving, and building learning communities. The Center also provides a diverse array of courses, workshops, and special events in personal development, the arts, humanities, and sciences for those who want to continue to learn throughout their lifetime.

For a current course guide or further information, please call 780-5900 or 1-800-787-0468.

## Department of Conferences

*Director:* Kathleen S. LeBel; *Conference Coordinator:* Elizabeth A. Morin

The Department of Conferences provides planning and coordination to University and community groups and organizations wishing to use the University's conference facilities and services. The Department occasionally provides workshops and seminars which bring together qualified individuals to share new information and ideas, upgrade professional skills, or to impart new techniques.

The Department's conference planning and management services are extended to professional and trade associations, government agencies, private business and community groups and organizations. Programs can be conducted on either campus, or off-campus wherever an appropriate meeting site can be arranged.

Each summer the Department of Conferences offers a number of camps for junior and senior high school age students. Offerings for the summer include USM Soccer School, "SWISH" Basketball Camp, "STIX" Field Hockey Camp, Fundamental Baseball Camp, Husky Hockey Camp and Softball Camp.

For information about these and other conference services at USM, please call 780-5960.

## Lifeline Center for Fitness, Recreation and Rehabilitation

*Director:* Thomas J. Downing; *Fitness Program Manager:* Peter Allen; *Rehabilitation Program Manager:* P. Len Jordan; *Fitness Certificate Manager:* Skip Cadigan; *Medical Director:* Peter K. Shaw, M.D.

The Lifeline Center is designed to help individuals and organizations in southern Maine adopt health-enhancing lifestyles by providing leadership and services in exercise, rehabilitation, education, recreation, and employee wellness. Many of Lifeline's fitness and rehabilitation activities require medical clearance from personal physicians. Application to all programs should be made well in advance.

Among the programs offered by Lifeline are aerobic exercise programs, weight training and conditioning programs, rehabilitation programs, education and leisure services, and health education services. Lifeline also offers a certificate program in fitness instruction. The center also offers many of its fitness classes to undergraduate and graduate students at reduced fees. Most classes are held in the Sullivan Gym at convenient times.

For more information on the variety of programs offered, call 780-4170.

## **Institute for Family-Owned Business**

*Director:* Ralph E. Struzziero

The Institute for Family-Owned Business provides a forum for addressing the unique circumstances of starting, owning, and maintaining businesses with other members of the family. Supported by corporate sponsors and membership fees, the Institute provides workshops, conferences, and networking opportunities on family business issues. For information, write to the Institute at 68 High Street, Portland, ME 04101; call (207) 780-5929; or fax (207) 780-5925.

## **University of Southern Maine Alumni Association**

The University of Southern Maine Alumni Association numbers more than 24,000 active members representing alumni of seven predecessor institutions (Gorham Normal School, Gorham State Teachers College, Portland Junior College, Portland University, University of Maine in Portland, Gorham State College, University of Maine at Portland-Gorham) and graduates of the University of Southern Maine. The Association is governed by a 21-member board of directors (including a student member) and an Alumni Advisory Council which provides support to the board of directors and the executive director regarding alumni matters.

The Alumni Association serves the alumni of the University of Southern Maine and its predecessor institutions, its current and future students, and the University community. They promote the University's future through advocacy, community outreach, and serving in partnership as a resource for the University administration. Participation with the Association enables alumni to further the University as an important educational, economic, cultural, and social influence in the state of Maine. It promotes increased educational aspirations within the community at large and a sense of fellowship among its members. Students are encouraged to visit the Alumni House on the Portland campus and get acquainted with the people and programs of the Alumni Association before graduation.

## **World Affairs Council of Maine**

*Program Director:* Theo Dunfey; *Administrative Director:* Barbara Ganly

Located on the USM Portland campus, the World Affairs Council of Maine is an independent nonprofit, non-partisan organization which offers free membership to all students. The Council provides opportunities to learn about international affairs from distinguished speakers and to interact with business leaders, the professional community, and others interested in what's going on in the world. Student internships and volunteer involvement are also offered. For further information and to register for membership, call 780-4551.

# Administration of the University of Southern Maine

*Administrative Organization as of July 1, 1995*

*President:* Richard L. Pattenaupe, 705 Law Building, Portland, tel: 780-4480  
*Provost and Vice President for Academic Affairs:* Mark B. Lapping, 711 Law Building, Portland, tel: 780-4485  
*Vice President for Administration:* Samuel G. Andrews, 723 Law Building, Portland, tel: 780-4484  
*Executive Director of Enrollment Management:* Rosa S. Redonnett, 732 Law Building, Portland, tel: 780-4516  
*Executive Director of Student Development:* Judith S. Ryan, 732 Law Building, Portland, tel: 780-4035  
*Executive Director, University Advancement:* Richard H. Sturgeon, 721 Law Building, Portland, tel: 780-4708  
*Executive Assistant to the President:* Robert J. Goettel, 709 Law Building, Portland, tel: 780-4482

## *Administrative Offices Serving Students*

*Academic Support, Division of*  
John W. Bay, Executive Director

*Admissions*  
Susan R. Campbell, Director

*Applied Science, School of*  
Brian C. Hodgkin, Dean

*ARAMARK*  
Mark Allen, Director

*Arts & Sciences, College of*  
Richard G. Stebbins, Dean

*Athletics*  
Al Bean, Director

*Bookstores*  
Cynthia S. Quinn, Director

*Business, School of*  
John M. Burt, Dean

*Career Services and Cooperative Education*  
Lawrence Bliss, Director

*Child Care Services*  
Helene Gerstein-Sky, Director

*Commuter Student Services*  
Helen Gorgas, Director

*Counseling Services*  
Ira Hymoff, Director

*Education and Human Development, College of*  
Richard E. Barnes, Dean

*Educational Media Services*  
Ronald W. Levere, Director

*Enrollment Services Center*  
Susan R. Campbell, Director

*Extended Academic Programs*  
Terry B. Foster, Director

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- Roberts, James W.** (1967) Associate Professor of Political Science; San Diego State College, B.A., 1954; University of North Carolina, Ph.D., 1973
- Robinson, Betty D.** (1988) Associate Professor of Management and Organizational Studies; Colby College, B.A., 1973; University of Maryland, M.A., 1976; Boston University, Ph.D., 1983
- Robinson, Jean** (1970) Staff Associate, Business Services-Student Loans; Westbrook Jr., A.A.S., 1965
- Rodgers, Marianne W.** (1981) Chair, Undergraduate Program and Associate Professor, School of Nursing; University of Maine, B.S.N., 1967; Boston University, M.S., 1981; Vanderbilt University, Ed.D., 1991
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- Ubans, Mara** (1970) Associate Professor of German; Indiana University, A.B., 1960; University of Southern California, M.A., 1962; Ph.D., 1975
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- Wroth, L. Kinvin** (1964) Professor, School of Law; Yale, B.A., 1954; Harvard, J.D., 1960
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- Zarr, Melvyn** (1973) Professor, School of Law; Clark University, A.B., 1958; Harvard University, LL.B., 1963
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**Riesenberg, Elaine**, Lecturer in English

**Rolfe, John Frederick**, Lecturer in English

**Salmon, Nancy C.**, Lecturer in Theater

**Sandberg, Charles M.**, Lecturer in Public Policy and Management

**Schneider, David**, Lecturer in Art

**Schnell, John M.**, Lecturer in Music

**Searway, Dixie L.**, Lecturer in Human Resource Development

**Severens, Kenneth W.**, Professor of American and New England Studies

**Sholl, Elizabeth**, Lecturer in English

**Simon, Percy J.**, Lecturer in Philosophy

**Small, Ralph D.**, Lecturer in Mathematics

**Smith, George E.**, Lecturer in English

**Smith, Nancy**, Lecturer in Music

**Souliere, Yvonne**, Lecturer in Basic Studies and English

**Spinella, Ronald J.**, Lecturer in Human Resource Development

**Steinman, Richard**, Professor Emeritus of Social Work

**Stewart, Janet J.**, Lecturer in Basic Studies and Associate Business Administration

**Strand, Stephen A.**, Lecturer in Accounting

**Street, Philo W.**, Lecturer in Music

**Sundik, Harry A.**, Lecturer in Technology

**Taylor, Karen D.**, Lecturer in Foreign Languages and Classics

**Tepler, Denise**, Lecturer in Anthropology

**Turcotte, Linwood N.**, Lecturer in Professional Development

**Walker, David**, Lecturer in English

**Walley, David R.**, Lecturer in Technology

**Walters, Susan**, Lecturer in Professional Education

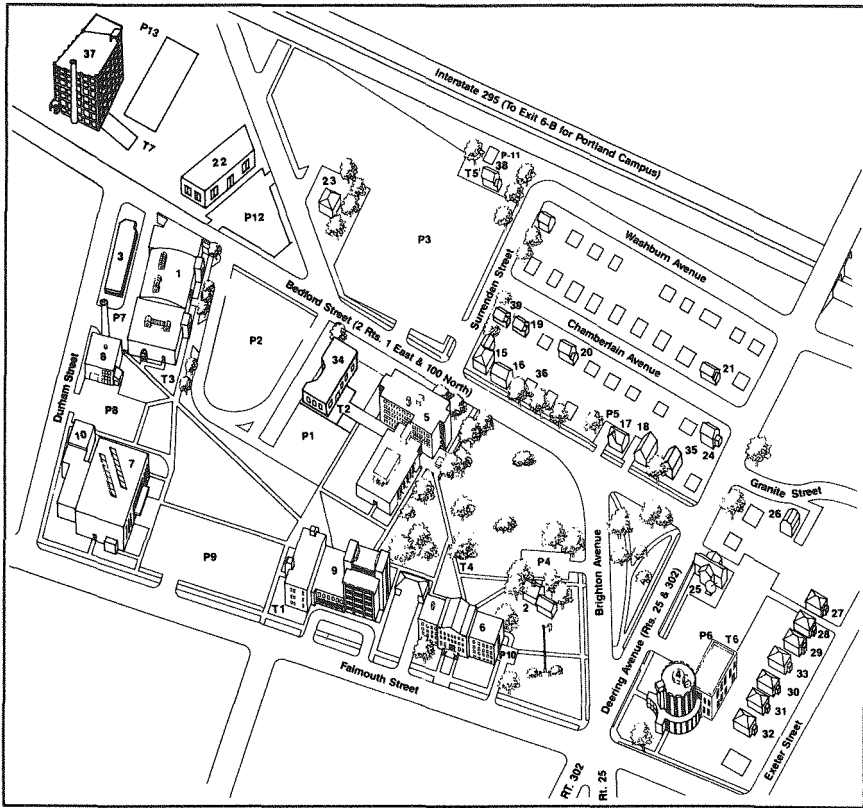
**Warren, William C.**, Lecturer in Technology

**Weaver, Virginia A.**, Lecturer in Basic Studies and English

**Zarrilli, Gerald V.**, Lecturer in English

**Ziko, Walter**, Lecturer in Professional Education

# Portland Campus



1. Campus Center (Bookstore, Dining Center)
2. Alumni House
3. 25 Bedford St. (Facilities Management & USM Recycles)
4. Law Building
5. Luther Bonney Hall (Computer Center)
6. Payson Smith Hall
7. Sullivan Gymnasium
8. Central Heating Plant
9. Science Building
10. Child Care
15. 92 Bedford Street
16. 94 Bedford Street
17. 118 Bedford Street
18. 120 Bedford Street
19. 7 Chamberlain Avenue
20. 15 Chamberlain Avenue
21. 38 Chamberlain Avenue
22. Campus Police (Former Steego Building)
23. 86 Winslow Street Powers House
24. 209 Deering Avenue
25. 228 Deering Avenue
26. 11 Granite Street
27. 39 Exeter Street
28. 45 Exeter Street
29. 47 Exeter Street
30. 55/57 Exeter Street
31. 59/61 Exeter Street

32. 65 Exeter Street
33. 49/51 Exeter Street
34. Masterton Hall
35. 126 Bedford Street
36. 102 Bedford Street
37. Library Building
38. 13-15 Surrenden Street
39. 1 Chamberlain Avenue

## Parking

- \*P1. Faculty/Staff
- \*P2. Student Commuter
- \*P3. Student Commuter Resident/Faculty/Staff Meters
- P4. Faculty/Staff
- P5. Faculty/Staff
- \*P6. Faculty/Staff/Meters
- P7. Faculty/Staff
- \*P8. Faculty/Staff
- \*P9. Faculty/Staff
- \*P10. Meters
- P11. Visitor
- P12. Student Commuter/Resident/Faculty/Staff
- \*P13. Faculty/Staff/Student Meters
- \*P14. Student/Commuter Resident/Faculty/Staff

*\*Designated handicap spaces in these lots.*

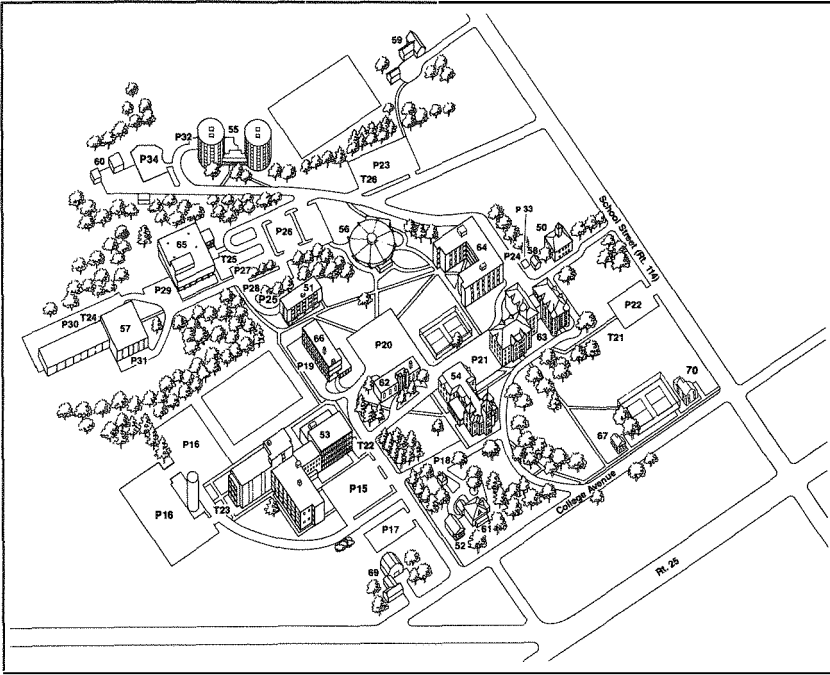
## Emergency Telephone Key

- T1. Science Building
- T2. Masterton Hall
- T3. Campus Center
- T4. Payson Smith/Luther Bonney Hall
- T5. Surrenden Street
- T6. Law Building
- T7. Library

## Directions to the Portland Campus

From either the north or south, take the Maine Turnpike to Exit 6A. Follow I-295 to Exit 6B (Forest Avenue North). Turn left at the second traffic light onto Falmouth Street. The campus is on the left.

# Gorham Campus



- 50. Academy Building
- 51. Anderson Hall
- 52. Art Gallery
- 53. Bailey Hall (Library)
- 54. Corthell Hall
- 55. Dickey/Wood Hall
- 56. Brooks Student Center
- 57. John Mitchell Center (Technology)
- 58. Mechanical Maint. Shop
- 59. McLellan House
- 60. Central Heating & Sewerage Plants
- 61. President's House
- 62. Russell Hall
- 63. Robie/Andrews Hall
- 64. Upton/Hastings Hall
- 65. Warren Hill Gym
- 66. Woodward Hall
- 67. 19 College Avenue
- 69. 51 College Avenue
- 70. 7 College Avenue

- \*P21. Faculty/Staff
- P22. Student Commuter
- P23. Student Resident
- \*P24. Student Resident
- P25. Faculty/Staff
- P26. Student Resident
- \*P27. Faculty/Staff/Student Resident
- P28. Student Resident
- P29. Faculty/Staff
- \*P30. Student Commuter Faculty/Staff
- P31. Faculty/Staff
- P32. Faculty/Staff
- P33. Faculty/Staff
- P34. Student Resident

*\*Designated handicap spaces in these lots.*

## Emergency Telephone Key

- T21. School Street
- T22. Bailey Bus Stop
- T23. Bailey Upper Lot
- T24. Technology Center
- T25. Hill Gym
- T26. P-23 Parking Lot

## Parking

- \*P15. Faculty/Staff
- \*P16. Student Commuter
- P17. Faculty/Staff
- \*P18. Meters
- \*P19. Student Commuter
- P20. Faculty/Staff

## Directions to the Gorham Campus

From either the north or south, take the Maine Turnpike to Exit 8. Follow Route 25 west to Gorham. At Gorham center (approximately 9 miles) turn right onto Route 114. Take the first left onto College Avenue. The entrance to campus is a short distance on the right.

## Directions to the Lewiston-Auburn Campus

From either the north or south, take the Maine Turnpike to Exit 13. Coming from the south, take a left at the stop sign, if you're coming from the north, go straight. Follow the signs for Lisbon Falls and Brunswick. Proceed to the second stop light and turn left onto Westminster Street. Lewiston-Auburn College is the cedar-shingled building at the top of the hill on the right.

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